Isn’t it nice when things just fit together?
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome Message</td>
<td>2</td>
</tr>
<tr>
<td>Contents</td>
<td>3</td>
</tr>
<tr>
<td>CA Housing Line</td>
<td>4</td>
</tr>
<tr>
<td>CA Header Line</td>
<td>5-6</td>
</tr>
<tr>
<td>CB Housing Line</td>
<td>7</td>
</tr>
<tr>
<td>CB Header Line</td>
<td>8</td>
</tr>
<tr>
<td>CC Housing Line</td>
<td>9</td>
</tr>
<tr>
<td>CC Header Line</td>
<td>10-11</td>
</tr>
<tr>
<td>CD Header Line</td>
<td>12</td>
</tr>
<tr>
<td>CF Housing Line</td>
<td>13</td>
</tr>
<tr>
<td>CH Housing Line</td>
<td>14</td>
</tr>
<tr>
<td>JP Housing and Header Line</td>
<td>15</td>
</tr>
<tr>
<td>JR Housing and Header Line</td>
<td>16</td>
</tr>
<tr>
<td>Potting Shell Housing and Cover Line</td>
<td>17-18</td>
</tr>
<tr>
<td>Headers Misc</td>
<td>19</td>
</tr>
<tr>
<td>CNC Perforations</td>
<td>20</td>
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<tr>
<td>Silk Screening / Pad Printing</td>
<td>21</td>
</tr>
<tr>
<td>Polycarbonate Specifications</td>
<td>22</td>
</tr>
<tr>
<td>Phenolic Specifications</td>
<td>23</td>
</tr>
</tbody>
</table>
Our CA Line of enclosures...

Made from Lexan 141R polycarbonate (PC)  
*(see page 22)*
Extremely durable.  
Very high impact resistance.

Housing Material: Polycarbonate  
*Flammability: V0-V2*  
*Melting temperature (Tm) 267 °C*  
*Surface resistivity: $10^{15} \, \Omega/sq*$  
*Volume resistivity ($\rho$): $10^{12}–10^{14} \, \Omega \cdot m$*

**CA Specifications:**  
<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.0</td>
<td>35.0</td>
<td>48.7</td>
</tr>
<tr>
<td>Width (in)</td>
<td>Length (in)</td>
<td>Height (in)</td>
</tr>
<tr>
<td>1.375</td>
<td>1.375</td>
<td>1.920</td>
</tr>
</tbody>
</table>

**CAS Specifications:**  
<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.0</td>
<td>35.0</td>
<td>39.6</td>
</tr>
<tr>
<td>Width (in)</td>
<td>Length (in)</td>
<td>Height (in)</td>
</tr>
<tr>
<td>1.375</td>
<td>1.375</td>
<td>1.56</td>
</tr>
</tbody>
</table>

Customized Machining Available  
Customized Printing Available

**Ordering:**  
CA (followed by color)  
CAS (followed by color)

example:  
CA red  CAS red  
CA blue  CAS blue  
CA clear  CAS clear  
CA green  CAS green  
CA yellow  CAS yellow  
CA orange  CAS orange  
CA beige  CAS beige  
CA black  CAS black  
CA white  CAS white

(custom colors available)
Our **CA Line** of header assemblies include:

**CA-8, CA-8DTL, CA-8DTS, CA-8P, CA-9, CA-11, CA-11DTL, CA-11DTS, CA-20**

**CAMF-8, CAMF-11**

Material “Phenolic” (see page 23)

- Extremely Hard
- Good Thermal Stability
- Chemical Imperviousness

8,9,11,20 PIN Bases

"Octal style" headers

In-Line style headers

Blade Type headers

Double thru pin connectors

Metal flanged headers also available

Machining and printing available

**Ordering:**

Use part number listed above
Our CA Line of header assemblies include:
CA-8, CA-8DTL, CA-8DTS, CA-8P, CA-9,
CA-11, CA-11DTL, CA-11DTS, CA-20
CAMF-8, CAMF-11

Header Material: Phenolic (PF), (see page 23)

Extremely Hard
Good Thermal Stability
Chemical Imperviousness

8,9,11,20 PIN Bases

"Octal style" headers
In-Line style headers
Blade Type headers

Double thru pin connectors
Metal flanged headers also available
Machining and printing available

Ordering:
Use part number listed above
Our CB Line of enclosures...

Made from Lexan 141R polycarbonate (PC)
(see page 22)
Extremely durable.
Very high impact resistance.

Housing Material: Polycarbonate
Flammability: V0-V2
Melting temperature (Tm) 267 °C
Surface resistivity: $10^{15}$ $\Omega$/sq
Volume resistivity ($p$): $10^{12}–10^{14}$ $\Omega \cdot m$

**CB Specifications:**

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>49.8</td>
<td>49.8</td>
<td>75.7</td>
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<tr>
<td>Width (in)</td>
<td>Length (in)</td>
<td>Height (in)</td>
</tr>
<tr>
<td>1.955</td>
<td>1.955</td>
<td>2.975</td>
</tr>
</tbody>
</table>

**CBLP Specifications:**

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>47.0</td>
<td>47.0</td>
<td>40.1</td>
</tr>
<tr>
<td>Width (in)</td>
<td>Length (in)</td>
<td>Height (in)</td>
</tr>
<tr>
<td>1.975</td>
<td>1.975</td>
<td>1.575</td>
</tr>
</tbody>
</table>

Customized Machining Available
Customized Printing Available

**Ordering:**
CB (followed by color)
CBLP (followed by color)

e.g., CB red CBLP red
CB blue CBLP blue
CB clear CBLP clear
CB green CBLP green
CB yellow CBLP yellow
CB orange CBLP orange
CB beige CBLP beige
CB black CBLP black
CB white CBLP white

(custom colors available)
Our CB Line of header assemblies include:
CB-8, CB-8DTL, CB-8DTS, CBMF-8, CB-11, CB-11DTL, CB-11DTS, CBMF-11, CB-12, CB-20

Header Material: Phenolic (PF), (see page 23)
Extremely Hard
Good Thermal Stability
Chemical Imperviousness

8,11,12,20 PIN Bases

"Octal style" headers
In-Line style headers
Blade Type headers

Double thru pin connectors
Metal flanged headers also available
Machining and printing available

Ordering:
CB-(followed by pin count)
CB-(followed by pin count) DTS
CB-(followed by pin count) DTL
CBMF-8
CBMF-11
Our **CC Line** of enclosures include:
**CC, CCPC, CCL, CCLPC**

Made from Lexan 141R polycarbonate (PC)
*(see page 22)*
Extremely durable.
Very high impact resistance.

Housing Material: Polycarbonate
Flammability: V0-V2
Melting temperature \((T_m)\) 267 °C
Surface resistivity: \(10^{15} \Omega/\text{sq}\)
Volume resistivity \((\rho)\): \(10^{12}-10^{14} \Omega \cdot \text{m}\)

**CC/CCPC Specifications:**

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>44.9</td>
<td>62.5</td>
<td>66.3</td>
</tr>
<tr>
<td>1.73</td>
<td>2.36</td>
<td>2.61</td>
</tr>
</tbody>
</table>

**CCL/CCLPC Specifications:**

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>44.9</td>
<td>62.5</td>
<td>83.0</td>
</tr>
<tr>
<td>1.75</td>
<td>2.32</td>
<td>3.27</td>
</tr>
</tbody>
</table>

Customized Machining Available
Customized Printing Available

**Ordering:**
CC (followed by color)
CCPC (followed by color)
CCL (followed by color)
CCLPC (followed by color)

example: CC red CCPC red CCL red
CC blue CCPC blue CCL blue
CC clear CCPC clear CCL clear
CC green CCPC green CCL green
CC yellow CCPC yellow CCL yellow
CC orange CCPC orange CCL orange
CC beige CCPC beige CCL beige
CC black CCPC black CCL black
CC white CCPC white CCL white

(custom colors available)
Our CC Line of header assemblies include:
CC-8, CC-8DTL, CC-8DTS, CC-8MF, CC-9, CC-11, CC-11DTL, CC-11DTS, CC-11MF, CCD-12, CCD-12 w/clip, CCD-12 DTL, CCD-12 DTL w/clip, CCD-12DTS, CCD-12 DTS w/clip, CC-20, CCQ-8, CCQ-11

Header Material: Phenolic (PF), (see page 23)
Extremely Hard
Good Thermal Stability
Chemical Imperviousness

8,9,11,12,20 PIN Bases

"Octal style" headers
In-Line style headers
Blade Type headers

Double thru pin connectors
Metal flanged headers also available
Machining and printing available

Ordering:
Use part number listed above

(Clip also sold separately)
Our **CC Line** of header assemblies include:

- CC-8, CC-8DTL, CC-8DTS, CC-8MF, CC-9, CC-11, CC-11DTL, CC-11DTS, CC-11MF, CCD-12, CCD-12 w/clip, CCD-12 DTL, CCD-12 DTL w/clip, CCD-12DTS, CCD-12 DTS w/clip, CC-20, CCQ-8, CCQ-11

**Header Material:** Phenolic (PF), (see page 23)

- Extremely Hard
- Good Thermal Stability
- Chemical Imperviousness

CC-Clip is made of Lexan 141R polycarbonate (PC)

8,9,11,12,20 PIN Bases

- "Octal style" headers
- In-Line style headers
- Blade Type headers

Double thru pin connectors

Metal flanged headers also available

Machining and printing available

**Ordering:**

Use part number listed above
Our **CD Line** of header assemblies include: **CD-8, CD-8DTL, CD-8DTS, CD-11, CD-11DTL, CD-11DTS**

Header Material: Phenolic (PF), (see page 23)

- Extremely Hard
- Good Thermal Stability
- Chemical Imperviousness

8,9,11,12,20 PIN Bases

"Octal style" headers
In-Line style headers
Blade Type headers

Double thru pin connectors
Metal flanged headers also available
Machining and printing available

**Ordering:**
CD-(followed by pin count)
CD-(followed by pin count) DTS
CD-(followed by pin count) DTL

(also see the JT line of headers)
Our **CF Line** of enclosures:

Made from Lexan 141R polycarbonate (PC)
*(see page 22)*

Extremely durable.
Very high impact resistance.

Housing Material: Polycarbonate
*Flammability: V0-V2*

*Melting temperature (Tm) 267 °C*

*Surface resistivity: $10^{15}$ Ω/sq*

*Volume resistivity ($\rho$): $10^{12}$–$10^{14}$ Ω·m*

**CF Specifications:**

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>69.8</td>
<td>88.9</td>
<td>66.5</td>
</tr>
<tr>
<td>Width (in)</td>
<td>Length (in)</td>
<td>Height (in)</td>
</tr>
<tr>
<td>2.75</td>
<td>3.5</td>
<td>2.62</td>
</tr>
</tbody>
</table>

Customized Machining Available
Customized Printing Available

**Ordering:**
CF (followed by color)

element: CF red
CF blue
CF clear
CF green
CF yellow
CF orange
CF beige
CF black
CF white

*(custom colors available)*
Our **CH Line** of enclosures:

Made from Lexan 141R polycarbonate (PC)
*(see page 22)*
Extremely durable.
Very high impact resistance.

Housing Material: Polycarbonate
**Flammability:** V0-V2
**Melting temperature (Tm)** 267 °C
**Surface resistivity:** $10^{15}$ Ω/sq
**Volume resistivity ($\rho$):** $10^{12}$–$10^{14}$ Ω·m

Header Material: Phenolic (PF), *(see page 23)*

**CH Specifications:**

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>36.3</td>
<td>62.5</td>
<td>57.4</td>
</tr>
<tr>
<td>Width (in)</td>
<td>Length (in)</td>
<td>Height (in)</td>
</tr>
<tr>
<td>1.43</td>
<td>2.46</td>
<td>2.26</td>
</tr>
</tbody>
</table>

Customized Machining Available
Customized Printing Available

**Ordering:**
CH (followed by color)

example:
CH red
CH blue
CH clear
CH green
CH yellow
CH orange
CH beige
CH black
CH white
(custom colors available)
Our JP Line of header assemblies include:

**Housing Material:** Lexan 141R polycarbonate (PC) *(see page 22)*

**Header Material:** Phenolic (PF), *(see page 23)*

Header Material is:
- Extremely Hard
- Good Thermal Stability
- Chemical Imperviousness

11 PIN Bases

"Octal style" headers
In-Line style headers

Double thru pin connectors
Machining and printing available

**Ordering:**
- JP-90
- JP-11
- JP-11DTL
- JP-11DTS
Our JR Line of header assemblies include:
**JR-105PCC, JR-11, JR-11DTL, JR-11DTS**

**Housing Material:** Lexan 141R polycarbonate (PC) *(see page 22)*

**Header Material:** Phenolic (PF), *(see page 23)*

**Header Material is:**
- Extremely Hard
- Good Thermal Stability
- Chemical Imperviousness

**11 Bases**

"Octal style" headers
In-Line style headers

Double thru pin connectors
Metal flanged headers also available
Machining and printing available

**Ordering:**
- JR-105PCC
- JR-11
- JR-11DTL
- JR-11DTS
- JRMF

**JR-105PCC Housing**

**JR (PC board Size)**
Our Potting Shell Line of enclosures include:

- 22750-0, 22750-1A, 22750-5, 22750-10, 22526, 22536
- 22526 and 22536 made with Lexan 141R polycarbonate (PC) (see page 22)

All others Material: Phenolic (PF), (see page 23)

- Extremely Hard
- Good Thermal Stability
- Chemical Imperviousness

Customized Machining Available
Customized Printing Available

Ordering:
Case: part number (followed by color)
Lid: (use part number)
Our Potting Shell Line of lids include:

22537, 22538, 22509, 22600, 22601, 22602, 22603, 22604, 22605, RSOB-Holes, RSOB-Posts

Extremely durable.
Very high impact resistance.

Housing Material: Lexan 141R polycarbonate (PC) *(see page 22)*

*Flammability: V0-V2
Melting temperature \((T_m)\) 267 °C
Surface resistivity: \(10^{15} \, \Omega/\text{sq}\)
Volume resistivity \((\rho)\): \(10^{12}–10^{14} \, \Omega \cdot \text{m}\)*

Customized Machining Available
Customized Printing Available

**Ordering:**
Case: 22750 (followed by color)
Lid: (use part number)

(custom colors available)
Many More Headers Available that are not listed...Call US

1-931-796-0039

RMF-8P

11281-11P

ATC-422-8

AGA-11

R60

ATC-8

CC Flange (no hole)

ATC-11
In House CNC Drilling/Milling and Perforation Department will custom drill any type of perforation needed for your final assembly.

Extremely Accurate repeatability.

Let us earn your business, one piece at a time.

We take pride in “Made in the USA”
In House Pad Printing and Silk Screening Department for all your industrial needs.

Small font and point sizes available.

100% Made in the USA.
LEXAN 141R is a medium viscosity multi purpose grade and contains a release agent to ensure easy processing. LEXAN 141R is available in transparent, translucent and opaque colours.

### 1. Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>ISO 1183</td>
<td>g/cm³</td>
<td>1.20</td>
</tr>
<tr>
<td>Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)</td>
<td>ISO 1133</td>
<td>cm³/10min</td>
<td>12.0</td>
</tr>
<tr>
<td>Water Absorption 23°C-50RH</td>
<td>ISO 62</td>
<td>%</td>
<td>0.15</td>
</tr>
<tr>
<td>Water Absorption Sat/23C</td>
<td>ISO 62</td>
<td>%</td>
<td>0.35</td>
</tr>
</tbody>
</table>

### 2. Mechanical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Modulus (1mm/min)</td>
<td>ISO 527-1.2</td>
<td>MPa</td>
<td>2300</td>
</tr>
<tr>
<td>Tensile Stress at Yield (50mm/min)</td>
<td>ISO 527-1.2</td>
<td>MPa</td>
<td>63</td>
</tr>
<tr>
<td>Tensile Stress at Break (50mm/min)</td>
<td>ISO 527-1.2</td>
<td>MPa</td>
<td>70</td>
</tr>
<tr>
<td>Tensile Strain at Yield (50mm/min)</td>
<td>ISO 527-1.2</td>
<td>%</td>
<td>0.0</td>
</tr>
<tr>
<td>Tensile Strain at Break (50mm/min)</td>
<td>ISO 527-1.2</td>
<td>%</td>
<td>110</td>
</tr>
<tr>
<td>Flexural Modulus (2mm/min)</td>
<td>ISO 178</td>
<td>MPa</td>
<td>2300</td>
</tr>
<tr>
<td>Charpy Unnotched Impact Strength (23°C edgewise)</td>
<td>ISO 179</td>
<td>kJ/m²</td>
<td>No Break</td>
</tr>
<tr>
<td>Charpy Unnotched Impact Strength (30°C edgewise)</td>
<td>ISO 179</td>
<td>kJ/m²</td>
<td>No Break</td>
</tr>
<tr>
<td>Charpy Notched Impact Strength (23°C, Type 2, Notch C)</td>
<td>ISO 179</td>
<td>kJ/m²</td>
<td>35</td>
</tr>
<tr>
<td>Unnotched Izod Impact Strength (23°C, Type 1)</td>
<td>ISO 180</td>
<td>kJ/m²</td>
<td>No Break</td>
</tr>
<tr>
<td>Unnotched Izod Impact Strength (30°C, Type 1)</td>
<td>ISO 180</td>
<td>kJ/m²</td>
<td>No Break</td>
</tr>
<tr>
<td>Notched Izod Impact Strength (23°C, Type 1, Notch A)</td>
<td>ISO 180</td>
<td>kJ/m²</td>
<td>12</td>
</tr>
<tr>
<td>Notched Izod Impact Strength (30°C, Type 1, Notch A)</td>
<td>ISO 180</td>
<td>kJ/m²</td>
<td>10</td>
</tr>
<tr>
<td>Ball Indentation Hardness (H 200/20)</td>
<td>ISO 2039-1</td>
<td>MPa</td>
<td>90</td>
</tr>
</tbody>
</table>

### 3. Thermal Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coefficient of Linear Thermal Expansion (23 to 80°C)</td>
<td>ISO 11369-1.2</td>
<td>cm/cm/°C</td>
<td>7.0E-006</td>
</tr>
<tr>
<td>HDT B (0.45 MPa) Unannealed</td>
<td>ISO 786-1.2</td>
<td>°C</td>
<td>138</td>
</tr>
<tr>
<td>HDT A (1.80 MPa) Unannealed</td>
<td>ISO 754-1.2</td>
<td>°C</td>
<td>125</td>
</tr>
<tr>
<td>Vicat Softening Temperature A50 (50°C/10N)</td>
<td>ISO 306</td>
<td>°C</td>
<td>153</td>
</tr>
<tr>
<td>Vicat Softening Temperature B50 (50°C/50N)</td>
<td>ISO 306</td>
<td>°C</td>
<td>141</td>
</tr>
<tr>
<td>Vicat Softening Temperature B120 (120°C, 50N)</td>
<td>ISO 306</td>
<td>°C</td>
<td>142</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>ISO 8302</td>
<td>W/m/K</td>
<td>0.20</td>
</tr>
</tbody>
</table>

### 4. Electrical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Permittivity (60 Hz)</td>
<td>IEC 60250</td>
<td>–</td>
<td>2.7</td>
</tr>
<tr>
<td>Relative Permittivity (50 Hz)</td>
<td>IEC 60250</td>
<td>–</td>
<td>2.7</td>
</tr>
<tr>
<td>Relative Permittivity (1 MHz)</td>
<td>IEC 60250</td>
<td>–</td>
<td>2.7</td>
</tr>
<tr>
<td>Dissipation Factor (60 Hz)</td>
<td>IEC 60250</td>
<td>°C</td>
<td>0.001</td>
</tr>
<tr>
<td>Dissipation Factor (50 Hz)</td>
<td>IEC 60250</td>
<td>–</td>
<td>0.001</td>
</tr>
<tr>
<td>Dissipation Factor (1 MHz)</td>
<td>IEC 60250</td>
<td>–</td>
<td>0.01</td>
</tr>
<tr>
<td>Volume Resistivity</td>
<td>IEC 60093</td>
<td>Ohm·cm</td>
<td>1E+015</td>
</tr>
<tr>
<td>Surface Resistivity</td>
<td>IEC 60093</td>
<td>Ohm</td>
<td>1E+015</td>
</tr>
<tr>
<td>Electric Strength (1mm thickness)</td>
<td>IEC 60243-1</td>
<td>kV/mm</td>
<td>15</td>
</tr>
<tr>
<td>Electric Strength (in Ch. 1.60mm)</td>
<td>IEC 60243-1</td>
<td>kV/mm</td>
<td>27</td>
</tr>
<tr>
<td>Electric Strength (in Ch. 3.20mm)</td>
<td>IEC 60243-1</td>
<td>kV/mm</td>
<td>17</td>
</tr>
<tr>
<td>Comb Torr Index</td>
<td>IEC 60112</td>
<td>–</td>
<td>250</td>
</tr>
</tbody>
</table>

### 5. Flame Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flame Rating – UL (0.7mm) (E121562)</td>
<td>UL 94</td>
<td>class</td>
<td>HB</td>
</tr>
<tr>
<td>Flame Rating – UL (3.0mm) (E121562)</td>
<td>UL 94</td>
<td>class</td>
<td>HB</td>
</tr>
<tr>
<td>Limiting Oxygen Index (LOI)</td>
<td>ISO 4589-1.2</td>
<td>%</td>
<td>25</td>
</tr>
<tr>
<td>Rel. Temp. Index Mech. w/0.1mp</td>
<td>UL 746</td>
<td>°C</td>
<td>125</td>
</tr>
<tr>
<td>Rel. Temp. Index Mech. w/1mp</td>
<td>UL 746</td>
<td>°C</td>
<td>123</td>
</tr>
<tr>
<td>Rel. Temp. Index Electric</td>
<td>UL 746</td>
<td>°C</td>
<td>130</td>
</tr>
</tbody>
</table>

### 6. Additional Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ball Pressure Test (125 °C ± 2 °C)</td>
<td>IEC 8033-1</td>
<td>–</td>
<td>PASS</td>
</tr>
<tr>
<td>GlowWire Flammability Index (550 °C)</td>
<td>IEC 90965-2-12</td>
<td>at 1mm</td>
<td>PASS</td>
</tr>
</tbody>
</table>
Products listed in this catalog that refer to material type “Phenolic” are made from “Durez 152”. This is a high quality phenolic material. The specifications for this material are below:

<table>
<thead>
<tr>
<th>Min Thk (mm)</th>
<th>Flame</th>
<th>RTI</th>
<th>RTI</th>
<th>RTI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Class</td>
<td>HRI</td>
<td>HAI</td>
<td>Elec</td>
</tr>
<tr>
<td>BK, BN</td>
<td>V-1</td>
<td>1</td>
<td>1</td>
<td>150</td>
</tr>
<tr>
<td>3.0</td>
<td>V-0</td>
<td>0</td>
<td>1</td>
<td>160</td>
</tr>
<tr>
<td>6.0</td>
<td>V-0</td>
<td>0</td>
<td>2</td>
<td>160</td>
</tr>
<tr>
<td>12.7</td>
<td>V-0</td>
<td>0</td>
<td>2</td>
<td>160</td>
</tr>
</tbody>
</table>

Comparative Tracking Index (CTI): 3
High-Voltage Arc Tracking Rate (HVTR): 0
Dielectric Strength (kV/mm): 20

<table>
<thead>
<tr>
<th>Typical Properties</th>
<th>Compression</th>
<th>Injection Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>International Units</td>
<td>English Units</td>
</tr>
<tr>
<td>Specific Gravity (D792)</td>
<td>1.50</td>
<td>1.50</td>
</tr>
<tr>
<td>Apparent Density (D1895)</td>
<td>0.68 g/cc</td>
<td>0.68 g/cc</td>
</tr>
<tr>
<td>Molding Shrinkage* (D6289)</td>
<td>0.006 m/m</td>
<td>0.006 in/in</td>
</tr>
<tr>
<td>Water Absorption (D570)</td>
<td>0.30 %</td>
<td>0.30 %</td>
</tr>
<tr>
<td>Tensile Strength (D638)</td>
<td>48 Mpa</td>
<td>7,000 psi</td>
</tr>
<tr>
<td>Flexural Strength (D790)</td>
<td>76 Mpa</td>
<td>11,000 psi</td>
</tr>
<tr>
<td>Compressive Strength (D695)</td>
<td>207 Mpa</td>
<td>30,000 psi</td>
</tr>
<tr>
<td>Tensile Modulus (D638)</td>
<td>9.6 Gpa</td>
<td>1.4 x10^6psi</td>
</tr>
<tr>
<td>Izod Impact (D256)</td>
<td>16.0 J/m</td>
<td>0.30 ft lb/in</td>
</tr>
<tr>
<td>Deflection Temperature (D648)</td>
<td>191 °C</td>
<td>375 °F</td>
</tr>
<tr>
<td>UL Flammability (UL-94) @</td>
<td>1.5 mm</td>
<td>V - 1</td>
</tr>
<tr>
<td>UL Temperature Index (Elect) @</td>
<td>3.0 mm</td>
<td>160 °C</td>
</tr>
<tr>
<td>Dielectric Strength (D149)</td>
<td>14.7 MV/m</td>
<td>375 V/mil</td>
</tr>
<tr>
<td>Step by Step</td>
<td>12.8 MV/m</td>
<td>325 V/mil</td>
</tr>
<tr>
<td>Dissipation Factor (D150)</td>
<td>0.05</td>
<td>0.05</td>
</tr>
<tr>
<td>Dielectric Constant (D150)</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Volume Resistivity (ohms) (D257)</td>
<td>1.0 x10^10 cm</td>
<td>1.0 x10^10 cm</td>
</tr>
</tbody>
</table>

Properties determined with test specimens molded at 340-350°F. *Typical transfer-molded shrinkage is 0.008 in/in or m/m

Other Properties

- IEC Tracking index (CTI): 190 V.
- Durez 152 is Fungus resistant per Mil-I-631D and Mil-E-5272C.
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