

**Arnitel® HM7118**
*Envalior - Thermoplastic Copolyester Elastomer*
**General Information**
**Product Description**

Injection Molding

**General**

|                   |  |
|-------------------|--|
| Material Status   | • Commercial: Active   |
| Availability      | • Africa & Middle East<br>• Asia Pacific<br>• Europe<br>• Latin America<br>• North America |
| Processing Method | • Injection Molding  |
| Resin ID          | • TPC-ET   |

**Properties <sup>1</sup>**

| Physical                                    | Nominal Value | Unit                   | Test Method      |
|---|---------------|------------------------|------------------|
| Density                                     | 0.950         | g/cm <sup>3</sup>      | ISO 1183         |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 5.0           | cm <sup>3</sup> /10min | ISO 1133         |
| Water Absorption (Saturation, 73°F)         | 0.80          | %                      | ISO 62           |
| Mechanical                                  | Nominal Value | Unit                   | Test Method      |
| Tensile Modulus                             | 2900          | psi                    | ISO 527-1        |
| Tensile Stress (Break)                      | 1310          | psi                    | ISO 527-2        |
| Nominal Tensile Strain at Break             | 650           | %                      | ISO 527-2        |
| Impact                                      | Nominal Value | Unit                   | Test Method      |
| Charpy Notched Impact Strength              |               |                        | ISO 179/1eA      |
| -22°F                                       | No Break      |                        |                  |
| 73°F  | No Break      |                        |                  |
| Notched Izod Impact Strength (73°F)         | No Break      |                        | ISO 180/1A       |
| Hardness                                    | Nominal Value | Unit                   | Test Method      |
| Shore Hardness (Shore D, 3 sec)             | 25            |                        | ISO 868          |
| Thermal                                     | Nominal Value | Unit                   | Test Method      |
| Glass Transition Temperature                |               |                        |                  |
| -- <sup>2</sup>                             | -101          | °F                     | ASTM D5026/D7028 |
| -- <sup>3</sup>                             | -49.0         | °F                     | ISO 11357-2      |
| Melting Temperature <sup>3</sup>            | 383           | °F                     | ISO 11357-3      |
| CLTE - Flow                                 | 1.2E-4        | in/in/°F               | ISO 11359-2      |
| CLTE - Transverse                           | 1.2E-4        | in/in/°F               | ISO 11359-2      |
| Fill Analysis                               | Nominal Value | Unit                   | Test Method      |
| Melt Density                                | 0.905         | g/cm <sup>3</sup>      |                  |

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> from DMTA (tan d)

<sup>3</sup> 10°C/min
