

Arnitel® EM400/U
Envalior - Thermoplastic Copolyester Elastomer
General Information
Product Description

Injection Molding or Extrusion Grade

General

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

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | 1.11 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) ² | 32 | g/10 min | ISO 1133 |
| Molding Shrinkage | | | ISO 294-4 |
| Across Flow | 1.5 | % | |
| Flow | 1.5 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 5800 | psi | ISO 527-1 |
| Tensile Stress (Yield) | 870 | psi | ISO 527-2 |
| Tensile Stress (Break) | 2900 | psi | ISO 527-2 |
| Tensile Stress | | | ISO 527-2 |
| 10% Strain | 435 | psi | |
| 100% Strain | 957 | psi | |
| Tensile Strain (Yield) | 50 | % | ISO 527-2 |
| Tensile Strain (Break) | > 300 | % | ISO 527-2 |
| Nominal Tensile Strain at Break | > 50 | % | 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 | | | ISO 180/1A |
| -4°F | No Break | | |
| 73°F | No Break | | |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore D, 15 sec) | 33 | | ISO 868 |
| Thermal | Nominal Value | Unit | Test Method |
| Glass Transition Temperature ³ | -99.4 | °F | ISO 11357-2 |
| Melting Temperature ³ | 383 | °F | ISO 11357-3 |

Notes
¹ Typical properties: these are not to be construed as specifications.

² 2.16 kg

³ 10°C/min
