



Sarlink® TPE FM-2270 XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Sarlink FM-2270 XRD1 is a general purpose thermoplastic elastomer, available in NAT, BLK, and colors, designed for automotive interior applications, including floor mats. Sarlink FM-2270 XRD1 is a UV stabilized, medium hardness, high density, wear-resistant, filled grade with good wear resistance and suitable for injection molding.

General

| | | | |
|-------------------|--|---|---|
| Material Status | • Preliminary Data | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Features | • Abrasion Resistant • Chemical Resistant • Filled • Good Adhesion • Good Colorability | • Good Processability • High Density • High Specific Gravity • Lubricated • Medium Flow | • Medium Hardness • UV Resistant • Wear Resistant |
| Uses | • Automotive Applications | • Automotive Interior Parts | • Rubber Replacement |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Black | • Colors Available | • Opaque |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | 1.18 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 12 | g/10 min | ASTM D1238 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 261 | psi | ISO 37 |
| Tensile Stress (Break) | 725 | psi | ISO 37 |
| Tensile Elongation (Break) | 700 | % | ISO 37 |
| Tear Strength | 140 | lbf/in | ISO 34-1 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness | | | ISO 868 |
| Shore A, 1 sec, Injection Molded | 73 | | |
| Shore A, 5 sec, Injection Molded | 71 | | |
| Shore A, 15 sec, Injection Molded | 70 | | |

Processing Information

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature | 390 to 410 | °F |
| Middle Temperature | 400 to 420 | °F |
| Front Temperature | 410 to 430 | °F |
| Nozzle Temperature | 420 to 440 | °F |

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| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Processing (Melt) Temp | 420 to 440 | °F |
| Mold Temperature | 95 to 150 | °F |
| Injection Pressure | 200 to 1000 | psi |
| Injection Rate | Fast | |
| Back Pressure | 25.0 to 125 | psi |
| Screw Speed | 50 to 120 | rpm |
| Cushion | 0.150 to 1.00 | in |

Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Notes

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