+135-3858-6433 (GuangDong)
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TEKNOR APEX

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/cm³	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	137	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

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Injection	Nominal Value	Unit
Nozzle Temperature	420 to 440	°F
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.