+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

TEKNOR APEX

Sarlink® TPE RV-2235B-01 XRD (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Sarlink RV-2235B-01 XRD is a high performance thermoplastic elastomer used in a variety of transportation applications including exterior automotive and RV parts. Sarlink RV-2235B-01 XRD is a medium hardness, low density extrusion grade that exhibits sunlight resistance.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Filled • Light Stabilized • Low Density • Low Hardness	• Low Specific Gravity • Lubricated • Medium Flow • Slip	• Sunlight Resistant • UV Absorbing
Uses	• Automotive Applications	• Automotive Exterior Parts	• Automotive Exterior Trim
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Extrusion		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	106	psi	
Flow : 100% Strain	276	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	899	psi	
Flow : Break	348	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	870	%	
Flow : Break	240	%	
Tear Strength [3]			ISO 34-1
Across Flow	69	lbf/in	
Flow	130	lbf/in	
Compression Set [4]			ISO 815
73°F, 22 hr	11	%	
158°F, 22 hr	60	%	
194°F, 70 hr	71	%	
257°F, 70 hr	84	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	44		
Shore A, 5 sec, Injection Molded	42		
Shore A, 15 sec, Injection Molded	41		

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	40	%	
Flow : 230°F, 1008 hr	0.0	%	
Across Flow : 100% Strain 230°F, 1008 hr	11	%	
Flow : 100% Strain 230°F, 1008 hr	9.5	%	
Across Flow : 257°F, 168 hr	-42	%	
Flow : 257°F, 168 hr	-4.2	%	
Across Flow : 100% Strain 257°F, 168 hr	-2.7	%	
Flow : 100% Strain 257°F, 168 hr	5.3	%	
Change in Tensile Strain at Break in Air [5]			ISO 188
Across Flow : 230°F, 1008 hr	9.4	%	
Flow : 230°F, 1008 hr	42	%	
Across Flow : 257°F, 168 hr	95	%	
Flow : 257°F, 168 hr	41	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr [6]	3.5		
Shore A, 230°F, 1008 hr [7]	3.1		
Shore A, 230°F, 1008 hr [8]	3.5		
Shore A, 257°F, 168 hr [8]	2.2		
Shore A, 257°F, 168 hr [6]	2.3		
Shore A, 257°F, 168 hr [7]	2.1		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec^-1)	209	Pa·s	ASTM D3835

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	360 to 450	°F
Cylinder Zone 2 Temp.	370 to 460	°F
Cylinder Zone 3 Temp.	380 to 470	°F
Cylinder Zone 5 Temp.	390 to 480	°F
Die Temperature	390 to 480	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm;
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.

[2] Type 1, 20 in/min

[3] Method Ba, Angle (Unnicked), 20 in/min