

Sarlink® TPE RV-2235B

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General Information

Product Description

Sarlink RV-2235B is a high performance Thermoplastic Elastomer used in transportation applications. Sarlink RV-2235B is a low hardness grade and UV resistant. This grade can be processed by extrusion.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Filled • Light Stabilized • Low Hardness	• 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/cm ³	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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Revision Date: 12/13/2016

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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	3.5		
Shore A, 230°F, 1008 hr ⁸	3.1		
Shore A, 257°F, 168 hr ⁸	2.1		
Shore A, 257°F, 168 hr ⁷	2.3		
Shore A, 257°F, 168 hr ⁶	2.2		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec ⁻¹)	209	Pa·s	ASTM D3835

Legal Statement

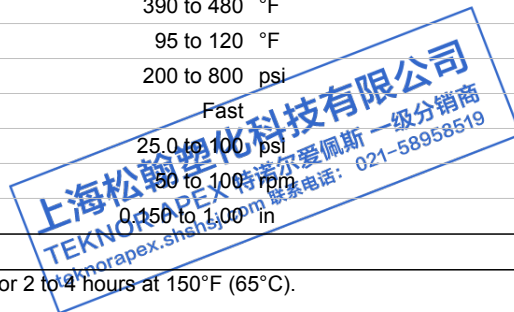
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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	360 to 450	°F
Middle Temperature	370 to 460	°F
Front Temperature	380 to 470	°F
Nozzle Temperature	390 to 480	°F
Processing (Melt) Temp	390 to 480	°F
Mold Temperature	95 to 120	°F
Injection Pressure	200 to 800	psi
Injection Rate	Fast	
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	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).



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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

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

⁴ Type A

⁵ Type 1

⁶ 5 sec delay

⁷ 15 sec delay

⁸ 1 sec

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