

Sarlink® TPE RV-2235B-01 XRD

(PRELIMINARY DATA)

Thermoplastic Elastomer
Teknor Apex Company

Message:

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 Information			
Features	Low Specific Gravity		
	Sunlight Resistant		
	Low density		
	smoothness		
	Light stabilization		
	Medium liquidity		
	Lubrication		
	Fill		
	Hardness, low		
	UV absorption		
Uses	Application in Automobile Field		
	Automotive exterior parts		
	Car exterior decoration		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion		
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
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shore A, 1 second, injection molding	44		ISO 868
Shore A, 5 seconds, injection molding	42		ISO 868
Shore A, 15 seconds, injection molding	41		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 37
Transverse flow: 100% strain	0.730	MPa	ISO 37

Flow: 100% strain	1.90	MPa	ISO 37
Tensile Stress ²			ISO 37
Transverse flow: Fracture	6.20	MPa	ISO 37
Flow: Fracture	2.40	MPa	ISO 37
Tensile Elongation ³			ISO 37
Transverse flow: Fracture	870	%	ISO 37
Flow: Fracture	240	%	ISO 37
Tear Strength ⁴			ISO 34-1
Transverse flow	12	kN/m	ISO 34-1
Flow	23	kN/m	ISO 34-1
Compression Set ⁵			ISO 815
23°C, 22 hr	11	%	ISO 815
70°C, 22 hr	60	%	ISO 815
90°C, 70 hr	71	%	ISO 815
125°C, 70 hr	84	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ⁶			ISO 188
Transverse flow: 110°C, 1008 hr	40	%	ISO 188
Flow: 110°C, 1008 hr	0.0	%	ISO 188
Transverse flow: 100% strain 110°C, 1008 hr	11	%	ISO 188
Flow: 100% strain 110°C, 1008 hr	9.5	%	ISO 188
Transverse flow: 125°C, 168 hr	-42	%	ISO 188
Flow: 125°C, 168 hr	-4.2	%	ISO 188
Transverse flow: 100% strain 125°C, 168 hr	-2.7	%	ISO 188
Flow: 100% strain 125°C, 168 hr	5.3	%	ISO 188
Change in Tensile Strain at Break in Air ⁷			ISO 188
Transverse flow: 110°C, 1008 hr	9.4	%	ISO 188
Flow: 110°C, 1008 hr	42	%	ISO 188
Transverse flow: 125°C, 168 hr	95	%	ISO 188
Flow: 125°C, 168 hr	41	%	ISO 188
Change in Shore Hardness in Air			
Shao A, 110°C, 1008 hr ⁸	3.1		ISO 188
Shao A, 110°C, 1008 hr ⁹	3.5		ISO 188
Shao A, 125°C, 168 hr ¹⁰	2.2		ISO 188
Shao A, 125°C, 168 hr ¹¹	2.3		ISO 188
Shao A, 125°C, 168 hr ¹²	2.1		ISO 188
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	209	Pa · s	ASTM D3835
Legal statement			

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Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	182 - 232	°C
Cylinder Zone 2 Temp.	188 - 238	°C
Cylinder Zone 3 Temp.	193 - 243	°C
Cylinder Zone 5 Temp.	199 - 249	°C
Die Temperature	199 - 249	°C

Extrusion instructions

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).

NOTE

1.	Type 1, 510mm/min
2.	Type 1, 510mm/min
3.	Type 1, 510mm/min
4.	B method, right angle specimen (without cut), 510mm/min
5.	Type a
6.	Type 1
7.	Type 1
8.	1 sec
9.	15 sec
10.	5 sec
11.	15 sec
12.	1 sec

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