Sarlink® TPE RV-2235B

Thermoplastic Elastomer

Teknor Apex Company

Message:

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 Information			
Features	Sunlight Resistant smoothness Light stabilization Medium liquidity Lubrication Fill Hardness, low UV absorption		
Uses	Application in Automobile Field Automotive exterior parts Car exterior decoration		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion		
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
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			
Support a, 110°C, 1008 hr [8]	3.5		ISO 188
Support a, 110°C, 1008 hr [9]	3.1		ISO 188
Support a, 125°C, 168 hr [10]	2.1		ISO 188
Support a, 125°C, 168 hr [11]	2.3		ISO 188
Support a, 125°C, 168 hr [12]	2.2		ISO 188
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (200°C, 206 sec^-1)	209	Pa·s	ASTM D3835
Injection	**Nominal Value**	**Unit**	
Rear Temperature	182 - 232	°C	
Middle Temperature	188 - 238	°C	
Front Temperature	193 - 243	°C	
Nozzle Temperature	199 - 249	°C	
Processing (Melt) Temp	199 - 249	°C	
Mold Temperature	35.0 - 48.9	°C	
Injection Pressure	1.38 - 5.52	MPa	

Injection Rate	Fast	
Back Pressure	0.172 - 0.689	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm

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

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

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.	5 sec delay
9.	1 sec
10.	1 sec
11.	15 sec delay
12.	5 sec delay

Recommended distributors for this material

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