Sarlink® TPE RV-2250D BLK 111

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink RV-2250D BLK 111 is a high performance thermoplastic elastomer used in a variety of transportation applications. Sarlink RV-2250D BLK 111 is a high hardness medium density extrusion grade that exhibits sunlight resistance and UV absorbing characteristics.

General Information			
Features	Sunlight Resistant Light stabilization Low liquidity Fill High hardness Medium density 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	1.01	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ISO 868
Shore D, 1 second, injection molding	54		ISO 868
Shore D, 5 seconds, injection molding	51		ISO 868
Shore D, 15 seconds, injection molding	50		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1]			ISO 37
Transverse flow: 100% strain	10.1	MPa	ISO 37
Flow: 100% strain	14.2	MPa	ISO 37
Tensile Stress [2]			ISO 37
Transverse flow: Fracture	12.6	MPa	ISO 37
Flow: Fracture	15.2	MPa	ISO 37
Tensile Elongation [3]			ISO 37

Transverse flow: Fracture	720	%	ISO 37
Flow: Fracture	360	%	ISO 37
Tear Strength [4]			ISO 34-1
Transverse flow	150	kN/m	ISO 34-1
Flow	88	kN/m	ISO 34-1
Compression Set [5]			ISO 815
23°C, 22 hr	46	%	ISO 815
70°C, 22 hr	75	%	ISO 815
90°C, 70 hr	85	%	ISO 815
125°C, 70 hr	100	%	ISO 815

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air [6]			ISO 188
Transverse flow: 110°C, 1008 hr	0.0	%	ISO 188
Flow: 110°C, 1008 hr	22	%	ISO 188
Transverse flow: 100% strain 110°C, 1008 hr	20	%	ISO 188
Flow: 100% strain 110°C, 1008 hr	29	%	ISO 188
Transverse flow: 125°C, 168 hr	0.80	%	ISO 188
Flow: 125°C, 168 hr	31	%	ISO 188
Transverse flow: 100% strain 125°C, 168 hr	18	%	ISO 188
Flow: 100% strain 125°C, 168 hr	41	%	ISO 188
Change in Tensile Strain at Break in Air [7]			ISO 188
Transverse flow: 110°C, 1008 hr	-35	%	ISO 188
Flow: 110°C, 1008 hr	-49	%	ISO 188
Transverse flow: 125°C, 168 hr	-30	%	ISO 188
Flow: 125°C, 168 hr	-47	%	ISO 188
Change in Shore Hardness in Air			
Support d, 110°C, 1008 hr [8]	4.5		ISO 188
Support d, 110°C, 1008 hr [9]	4.4		ISO 188
Support d, 125°C, 168 hr [10]	5.9		ISO 188
Support d, 125°C, 168 hr [11]	5.5		ISO 188
Support d, 125°C, 168 hr [12]	5.2		ISO 188

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec^-1)	545	Pa·s	ASTM D3835

Legal statement

Injection	Nominal Value	Unit

Rear Temperature	199 - 210	°C
Middle Temperature	204 - 216	°C
Front Temperature	210 - 221	°C
Nozzle Temperature	216 - 227	°C
Processing (Melt) Temp	216 - 227	°C
Mold Temperature	35 - 66	°C
Injection Pressure	1.38 - 6.89	MPa
Injection Rate	Fast	
Back Pressure	0.172 - 0.862	MPa
Screw Speed	50 - 120	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.	193 - 204	°C
Cylinder Zone 2 Temp.	199 - 210	°C
Cylinder Zone 3 Temp.	204 - 216	°C
Cylinder Zone 5 Temp.	210 - 221	°C
Die Temperature	216 - 227	°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.	15 sec
9.	5 sec
10.	15 sec
11.	5 sec
12.	1 sec

Recommended distributors for this material

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