Sarlink® TPE RV-2670D

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink RV-2670D is a high performance thermoplastic elastomer, available in NAT and BLK, used in a variety of transportation applications. Sarlink RV-2670D is a high hardness, high density, filled grade with a 400k psi modulus that is UV stabilized and suitable for extrusion and injection molding.

General Information	
Features	Sunlight Resistant High specific gravity High density smoothness Light stabilization Good UV resistance Good adhesion Low liquidity Good chemical resistance Good weather resistance Good toughness Lubrication Fill High hardness
Uses	Application in Automobile Field Automotive exterior parts Car exterior decoration Bracket
RoHS Compliance	RoHS compliance
Appearance	Black Natural color
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**

Durometer Hardness			ISO 868
Shore D, 1 second, injection molding	70		ISO 868
Shore D, 5 seconds, injection molding	69		ISO 868
Shore D, 15 seconds, injection molding	68		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus	2690	MPa	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1]			ISO 37
Transverse flow: 100% strain	12.8	MPa	ISO 37
Flow: 100% strain	17.2	MPa	ISO 37
Tensile Stress [2]			ISO 37
Transverse flow: Fracture	17.9	MPa	ISO 37
Flow: Fracture	21.8	MPa	ISO 37
Tensile Elongation [3]			ISO 37
Transverse flow: Fracture	120	%	ISO 37
Flow: Fracture	140	%	ISO 37
Tear Strength [4]			ISO 34-1
Transverse flow	180	kN/m	ISO 34-1
Flow	130	kN/m	ISO 34-1
Compression Set [5]			ISO 815
23°C, 22 hr	67	%	ISO 815
70°C, 22 hr	94	%	ISO 815
90°C, 70 hr	93	%	ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air [6]			ISO 188
Transverse flow: 110°C, 1008 hr	6.1	%	ISO 188
Flow: 110°C, 1008 hr	11	%	ISO 188
Transverse flow: 100% strain 110°C, 1008 hr	16	%	ISO 188
Flow: 100% strain 110°C, 1008 hr	29	%	ISO 188
Transverse flow: 125°C, 168 hr	3.9	%	ISO 188
Flow: 125°C, 168 hr	7.9	%	ISO 188
Transverse flow: 100% strain 125°C, 168 hr	20	%	ISO 188
Flow: 100% strain 125°C, 168 hr	33	%	ISO 188
Change in Tensile Strain at Break in Air [7]			ISO 188
Transverse flow: 110°C, 1008 hr	-31	%	ISO 188
Flow: 110°C, 1008 hr	-18	%	ISO 188
Transverse flow: 125°C, 168 hr	16	%	ISO 188
Flow: 125°C, 168 hr	9.2	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Support d, 110°C, 1008 hr [8]	1.4		ISO 188
Support d, 110°C, 1008 hr [9]	1.2		ISO 188

Support d, 110°C, 1008 hr [10]	0.60		ISO 188
Support d, 125°C, 168 hr [11]	1.3		ISO 188
Support d, 125°C, 168 hr [12]	1.1		ISO 188
Support d, 125°C, 168 hr [13]	0.10		ISO 188
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (200°C, 206 sec^-1)	613	Pa·s	ASTM D3835

Legal statement

Injection	Nominal Value	Unit
Rear Temperature	193 - 232	°C
Middle Temperature	193 - 232	°C
Front Temperature	193 - 232	°C
Nozzle Temperature	193 - 232	°C
Processing (Melt) Temp	193 - 232	°C
Mold Temperature	16 - 43	°C
Injection Pressure	1.38 - 6.89	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.172 - 0.345	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm
Extrusion	**Nominal Value**	**Unit**
Cylinder Zone 1 Temp.	193 - 221	°C
Cylinder Zone 2 Temp.	193 - 221	°C
Cylinder Zone 3 Temp.	193 - 221	°C
Cylinder Zone 4 Temp.	193 - 221	°C
Cylinder Zone 5 Temp.	193 - 221	°C
Die Temperature	193 - 221	°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.	1 sec
11.	1 sec
12.	5 sec
13.	15 sec

Recommended distributors for this material

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