Sarlink® TPE RV-2668DN

Thermoplastic Elastomer

Teknor Apex Company

Message:

Sarlink RV-2668DN is a high performance Thermoplastic Elastomer used in transportation applications. Sarlink RV-2668DN is a high hardness grade and UV resistant. This grade can be processed by injection molding.

General Information	
Features	Sunlight Resistant
	smoothness
	Light stabilization
	Low liquidity
	Fill
	High hardness
	Medium density
Uses	Washer
	Application in Automobile Field
	Automotive exterior parts
	Car exterior decoration
	General
Appearance	Opacity
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness [1]			ISO 868
Shore D, 1 second, injection molding	73		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	1690	MPa	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Transverse flow: 100% strain	14.8	MPa	ISO 37

Flow: 100% strain	14.5	MPa	ISO 37
Tensile Stress [3]			ISO 37
Transverse flow: Fracture	21.8	MPa	ISO 37
Flow: Fracture	25.1	MPa	ISO 37
Tensile Elongation [4]			ISO 37
Transverse flow: Fracture	320	%	ISO 37
Flow: Fracture	140	%	ISO 37
Tear Strength [5]			ISO 34-1
Transverse flow	210	kN/m	ISO 34-1
Flow	140	kN/m	ISO 34-1
Compression Set [6]			ISO 815
23°C, 22 hr	63	%	ISO 815
70°C, 22 hr	86	%	ISO 815
90°C, 70 hr	93	%	ISO 815
125°C, 70 hr	100	%	ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air [7]			ISO 188
Transverse flow: 110°C, 1008 hr	1.8	%	ISO 188
Flow: 110°C, 1008 hr	9.0	%	ISO 188
Transverse flow: 100% strain 110°C, 1008 hr	12	%	ISO 188
Flow: 100% strain 110°C, 1008 hr	68	%	ISO 188
Transverse flow: 125°C, 168 hr	-2.8	%	ISO 188
Flow: 125°C, 168 hr	2.4	%	ISO 188
Transverse flow: 100% strain 125°C, 168 hr	15	%	ISO 188
Flow: 100% strain 125°C, 168 hr	75	%	ISO 188
Change in Tensile Strain at Break in Air [8]			ISO 188
Transverse flow: 110°C, 1008 hr	-58	%	ISO 188
Flow: 110°C, 1008 hr	-7.2	%	ISO 188
Transverse flow: 125°C, 168 hr	-54	%	ISO 188
Flow: 125°C, 168 hr	27	%	ISO 188
Change in Shore Hardness in Air			
Support d, 110°C, 1008 hr [9]	2.0		ISO 188
Support d, 110°C, 1008 hr [10]	2.3		ISO 188
Support c, 125°C, 168 hr [11]	1.1		ISO 188
Support d, 125°C, 168 hr [12]	1.3		ISO 188
Support d, 125°C, 168 hr [13]	1.2		ISO 188
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (200°C, 206 sec^-1)	560	Pa·s	ASTM D3835
Injection	**Nominal Value**	**Unit**	
Rear Temperature	171 - 193	°C	
Middle Temperature	177 - 199	°C	

Front Temperature	182 - 204	°C
Nozzle Temperature	188 - 210	°C
Processing (Melt) Temp	188 - 210	°C
Mold Temperature	25.0 - 65.6	°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

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.	166 - 188	°C
Cylinder Zone 2 Temp.	171 - 193	°C
Cylinder Zone 3 Temp.	177 - 199	°C
Cylinder Zone 5 Temp.	182 - 204	°C
Die Temperature	190 - 210	°C

Extrusion instructions
Screw Speed: 30 to 100 rpm

NOTE	
1.	24 hrs
2.	Type 1, 510mm/min
3.	Type 1, 510mm/min
4.	Type 1, 510mm/min
5.	B method, right angle specimen (without cut), 510mm/min
6.	Type a
7.	Type 1
8.	Type 1
9.	1 sec
10.	15 sec
11.	1 sec
12.	15 sec
13.	5 sec

Recommended distributors for this material

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