+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

TEKNOR APEX

Sarlink® TPE RV-2671DN NAT

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Sarlink RV-2671D is a high performance thermoplastic elastomer, available in NAT and BLK, used in automotive applications, including exterior. Sarlink RV-2671D is a high hardness, high density grade exhibiting excellent UV resistance and chemical resistance. This grade can be processed by injection molding and extrusion.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Filled • Good Adhesion • Good Mold Release • Good Moldability • Good Processability	• Good Processing Stability • Good Toughness • High Density • High Hardness • High Specific Gravity • Light Stabilized	• Low Flow • Lubricated • Slip • UV Resistant • Weather Resistant
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Exterior Trim • Profiles	• Racks
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus	264000	psi	ISO 178
Flexural Stress [2]	4660	psi	ISO 178
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [3]			ISO 37
Across Flow : 100% Strain	2060	psi	
Flow : 100% Strain	2210	psi	
Tensile Stress [3]			ISO 37
Across Flow : Break	2840	psi	
Flow : Break	3450	psi	
Tensile Elongation [3]			ISO 37
Across Flow : Break	110	%	
Flow : Break	140	%	
Tear Strength [4]			ISO 34-1
Across Flow	940	lbf/in	
Flow	780	lbf/in	
Compression Set [5]			ISO 815
73°F, 22 hr	46	%	
158°F, 22 hr	78	%	
194°F, 70 hr	77	%	
257°F, 70 hr	74	%	

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Sarlink® TPE RV-2671DN NAT

Teknor Apex Company - Thermoplastic Elastomer

Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D, 1 sec, Injection Molded	73		
Shore D, 5 sec, Injection Molded	71		
Shore D, 15 sec, Injection Molded	69		
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air [6]			ISO 188
Across Flow : 230°F, 1008 hr	11	%	
Flow : 230°F, 1008 hr	2.1	%	
Across Flow : 100% Strain 230°F, 1008 hr	12	%	
Flow : 100% Strain 230°F, 1008 hr	46	%	
Across Flow : 100% Strain 257°F	14	%	
Across Flow : 257°F, 168 hr	5.6	%	
Flow : 257°F, 168 hr	-0.80	%	
Flow : 100% Strain 257°F, 168 hr	49	%	
Change in Tensile Strain at Break in Air [6]			ISO 188
Across Flow : 230°F, 1008 hr	-18	%	
Flow : 230°F, 1008 hr	-15	%	
Across Flow : 257°F, 168 hr	7.3	%	
Flow : 257°F, 168 hr	-16	%	
Change in Shore Hardness in Air			ISO 188
Shore D, 230°F, 1008 hr [7]	1.7		
Shore D, 230°F, 1008 hr [8]	1.4		
Shore D, 230°F, 1008 hr [9]	0.60		
Shore D, 257°F, 168 hr [7]	1.7		
Shore D, 257°F, 168 hr [8]	1.6		
Shore D, 257°F, 168 hr [9]	1.3		
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (392°F, 206 sec^-1)	665	Pa·s	ASTM D3835

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	380 to 450	°F
Middle Temperature	380 to 450	°F
Front Temperature	380 to 450	°F
Nozzle Temperature	380 to 450	°F
Processing (Melt) Temp	380 to 450	°F
Mold Temperature	60 to 110	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 50.0	psi
Screw Speed	50 to 100	rpm

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Sarlink® TPE RV-2671DN NAT

Teknor Apex Company - Thermoplastic Elastomer

Injection	Nominal Value	Unit
Cushion	0.150 to 1.00	in

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	380 to 430	°F
Cylinder Zone 2 Temp.	380 to 430	°F
Cylinder Zone 3 Temp.	380 to 430	°F
Cylinder Zone 4 Temp.	380 to 430	°F
Cylinder Zone 5 Temp.	380 to 430	°F
Die Temperature	380 to 430	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Yield strength

[3] Type 1, 20 in/min

[4] Method Ba, Angle (Unnicked), 20 in/min

[5] Type A

[6] Type 1

[7] 15 sec

[8] 5 sec

[9] 1 sec