



Thursday, July 25, 2013

Sarlink® TPV 3139D

Units

Teknor Apex Company (Sarlink) - Thermoplastic Vulcanizate

Action

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General Information

Product Description

SARLINK® 3139D is a high hardness, multi-purpose thermoplastic elastomer featuring excellent resiliency, heat resistance and flex fatigue resistance. SARLINK® 3139D can be processed by injection molding, extrusion and blow molding to produce clamps, grommets, profiles, boots, ducts and bellows.

General

Material Status	● Commercial: Active		
Availability	● Asia Pacific	● North America	
	● Europe	● South America	
Features	● Fatigue Resistant	● Medium Heat Resistance	
	● High Hardness	● Resilient	
Uses	● Grommets	● Profiles	
Automotive Specifications	● OPEL QK 3532 Type 2 Color: Black	● OPEL QK 3532 Type 2 Color: Natural	● PSA Peugeot-Citroën SPA X62 3458
Forms	● Pellets		
Processing Method	● Blow Molding	● Extrusion	● Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Across Flow : 100% Strain	8.90	MPa	
Flow : 100% Strain	13.3	MPa	
Tensile Stress			ISO 37
Across Flow : Break	18.5	MPa	
Flow : Break	17.4	MPa	
Tensile Elongation			ISO 37
Across Flow : Break	700	%	
Flow : Break	400	%	
Tear Strength - Across Flow ²	100	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 22.0 hr	53	%	
70°C, 22.0 hr	67	%	
125°C, 70.0 hr	85	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D, 5 sec, Extruded	38		
Shore D, 5 sec, Injection Molded	41		
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ISO 188
135°C, 1000 hr	-5.0	%	
100% Strain 135°C, 1000 hr	9.0	%	
150°C, 168 hr	-7.0	%	
100% Strain 150°C, 168 hr	11	%	
Change in Tensile Strain at Break in Air - Across Flow			ISO 188
135°C, 1000 hr	90	%	
150°C, 168 hr	89	%	
Change in Shore Hardness in Air			ISO 188
Shore D, 135°C, 1000 hr	0.0		

Shore D, 150°C, 168 hr	1.0	
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	55 %	ISO 1817
Additional Information	Nominal Value	Unit Test Method
Apparent Shear Viscosity - Capillary, 206 1/s (200°C)	310	Pa·s

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	180 to 215	°C
Middle Temperature	180 to 215	°C
Front Temperature	180 to 215	°C
Nozzle Temperature	187 to 220	°C
Processing (Melt) Temp	185 to 220	°C
Mold Temperature	10.0 to 55.0	°C
Back Pressure	0.100 to 1.00	MPa
Screw Speed	100 to 200	rpm
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	180 to 200	°C
Cylinder Zone 2 Temp.	180 to 205	°C
Cylinder Zone 3 Temp.	187 to 210	°C
Cylinder Zone 4 Temp.	187 to 210	°C
Melt Temperature	195 to 215	°C
Die Temperature	195 to 215	°C
Take-Off Roll	20.0 to 50.0	°C

Extrusion Notes

Screen Pack: 20 to 60 mesh
Screw : general purpose
Compression Ratio: 3:1

Notes

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

² Method Ba, Angle (Unnicked)

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