Sarlink® TPV 4155N

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

A highly engineered Thermoplastic Elastomer for use in demanding applications. Sarlink® 4155N is a low hardness grade possessing exceptional tensile strength, superior compression set, chemical resistance and high temperature performance. It can be easily processed by injection molding, blow molding or extrusion for various applications such as boots and bellows, seals, gaskets as well as other profiles and articles.

General Information					
Features	Fatigue resistance				
	Heat resistance, medium				
Uses	Washer				
	Pipe				
	Pipe fittings				
	Seals				
	Application in Automobile Field				
RoHS Compliance	RoHS compliance				
Appearance	Opacity				
	Black	Black			
	Natural color				
Forms	Particle				
Processing Method	Blow molding				
	Extrusion				
	Injection molding				
	Name in al Malura	Unit			
Physical	Nominal Value		Test Method		
			Test Method		
	0.958	g/cm³	ASTM D792		
		g/cm³ g/cm³			
Specific Gravity 	0.958	-	ASTM D792		
Specific Gravity Hardness	0.958 0.960	g/cm ³	ASTM D792 ISO 1183		
Specific Gravity Hardness	0.958 0.960	g/cm ³	ASTM D792 ISO 1183 Test Method		
Hardness Durometer Hardness	0.958 0.960 Nominal Value	g/cm ³	ASTM D792 ISO 1183 Test Method ASTM D2240, ISO 868		
Specific Gravity Hardness Durometer Hardness Shaw A, 5 seconds, extruded Shore A, 5 seconds, injection molding	0.958 0.960 Nominal Value 53	g/cm ³	ASTM D792 ISO 1183 Test Method ASTM D2240, ISO 868 ASTM D2240, ISO 868		
Specific Gravity Hardness Durometer Hardness Shaw A, 5 seconds, extruded	0.958 0.960 Nominal Value 53 56	g/cm ³ Unit	ASTM D792 ISO 1183 Test Method ASTM D2240, ISO 868 ASTM D2240, ISO 868 ASTM D2240, ISO 868		
Specific Gravity Hardness Durometer Hardness Shaw A, 5 seconds, extruded Shore A, 5 seconds, injection molding Elastomers	0.958 0.960 Nominal Value 53 56	g/cm ³ Unit	ASTM D792 ISO 1183 Test Method ASTM D2240, ISO 868 ASTM D2240, ISO 868 ASTM D2240, ISO 868		

Transverse flow: Fracture	5.20	MPa	ASTM D412, ISO 37
Flow: Fracture	4.30	MPa	ISO 37, ASTM D412
Tensile Elongation			
Transverse flow: Fracture	550	%	ASTM D412, ISO 37
Flow: Fracture	240	%	ISO 37, ASTM D412
Tear Strength - Across Flow			
	22	kN/m	ASTM D624
¹	22	kN/m	ISO 34-1
Compression Set			ASTM D395, ISO 815
23°C, 22 hr	14	%	ASTM D395, ISO 815
70°C, 22 hr	26	%	ASTM D395, ISO 815
125°C, 70 hr	37	%	ASTM D395, ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow			ASTM D573, ISO 188
135°C, 1000 hr	-5.0	%	ASTM D573, ISO 188
100% strain 135°C, 1000 hr	2.0	%	ASTM D573, ISO 188
150°C, 168 hr	-9.0	%	ASTM D573, ISO 188
100% strain 150°C, 168 hr	-2.0	%	ASTM D573, ISO 188
Changes in tensile stress upon fracture in air-Transverse flow			
135°C, 1000 hr	1.0	%	ASTM D573, ISO 188
150°C, 168 hr	-6.0	%	ISO 188, ASTM D573
Change in Shore Hardness in Air			ASTM D573, ISO 188
Support a, 135°C, 1000 hr	2.0		ASTM D573, ISO 188
Support a, 150°C, 168 hr	2.0		ASTM D573, ISO 188
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	85	%	ASTM D471, ISO 1817
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s			
200°C	320	Pa·s	ASTM D3835
200°C	320	Pa·s	ISO 11443
Injection	Nominal Value	Unit	
Rear Temperature	180 - 215	°C	
Middle Temperature	180 - 215	°C	
Front Temperature	180 - 215	°C	
Nozzle Temperature	187 - 220	°C	
Processing (Melt) Temp	185 - 220	°C	
Mold Temperature	10.0 - 55.0	°C	
Back Pressure	0.100 - 1.00	MPa	
Screw Speed	100 - 200	rpm	
Extrusion	Nominal Value		

Cylinder Zone 1 Temp.	180 - 200	°C			
Cylinder Zone 2 Temp.	180 - 205	°C			
Cylinder Zone 3 Temp.	187 - 210	°C			
Cylinder Zone 4 Temp.	187 - 210	°C			
Melt Temperature	195 - 215	°C			
Die Temperature	195 - 215	°C			
Take-Off Roll	20.0 - 50.0	°C			
Extrusion instructions					
Screen Pack: 20 to 60 meshScrew: general purposeCompression Ratio: 3:1					
NOTE					
Method B, right-angle specimen					

(without cut)

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