

Sarlink® TPV 24955N

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General Information

Product Description

Sarlink TPV 24955N is a general purpose thermoplastic vulcanizate used in automotive and industrial applications. Sarlink TPV 24955N is a medium hardness, low density, lubricated grade that 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	• Light Stabilized • Low Density • Low Specific Gravity	• Lubricated • Medium Flow • Medium Hardness	• Slip
Uses	• Expansion Joint • Gaskets • Glazing	• Grommets • Plugs • Shock Absorbing Pads	• Tubing • Weatherstripping
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ISO 37
Across Flow : 100% Strain	254	psi	
Flow : 100% Strain	383	psi	
Tensile Stress ²			ISO 37
Across Flow : Break	450	psi	
Flow : Break	479	psi	
Tensile Elongation ²			ISO 37
Across Flow : Break	250	%	
Flow : Break	180	%	
Tear Strength ³			ISO 34-1
Across Flow	79	lbf/in	
Flow	75	lbf/in	
Compression Set ⁴			ISO 815
73°F, 22 hr	15	%	
158°F, 22 hr	24	%	
194°F, 70 hr	28	%	
257°F, 70 hr	41	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	57		
Shore A, 5 sec, Injection Molded	55		
Shore A, 15 sec, Injection Molded	54		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-76.0	°F	ASTM D746

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Revision Date: 1/10/2017

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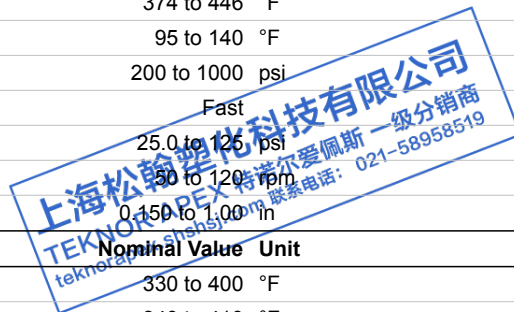
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ⁵			ISO 188
Across Flow : 230°F, 1008 hr	3.2	%	
Flow : 230°F, 1008 hr	-3.0	%	
Across Flow : 100% Strain 230°F, 1008 hr	8.6	%	
Flow : 100% Strain 230°F, 1008 hr	8.0	%	
Across Flow : 257°F, 168 hr	-6.5	%	
Flow : 257°F, 168 hr	0.0	%	
Across Flow : 100% Strain 257°F, 168 hr	11	%	
Flow : 100% Strain 257°F, 168 hr	11	%	
Change in Tensile Strain at Break in Air ⁵			ISO 188
Across Flow : 230°F, 1008 hr	-5.6	%	
Flow : 230°F, 1008 hr	-19	%	
Across Flow : 257°F, 168 hr	-16	%	
Flow : 257°F, 168 hr	-23	%	
Change in Shore Hardness in Air			ISO 188
Shore A, 230°F, 1008 hr ⁶	4.0		
Shore A, 230°F, 1008 hr ⁷	3.8		
Shore A, 230°F, 1008 hr	3.1		
Shore A, 257°F, 168 hr ⁶	0.90		
Shore A, 257°F, 168 hr ⁷	0.70		
Shore A, 257°F, 168 hr ⁸	-0.30		

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (392°F, 206 sec ⁻¹)	161	Pa·s	ASTM D3835

Legal Statement

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Processing Information		
Injection	Nominal Value	Unit
Rear Temperature	344 to 416	°F
Middle Temperature	354 to 426	°F
Front Temperature	364 to 436	°F
Nozzle Temperature	374 to 446	°F
Processing (Melt) Temp	374 to 446	°F
Mold Temperature	95 to 140	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Fast	
Back Pressure	25.0 to 125	psi
Screw Speed	50 to 120	rpm
Cushion	0.150 to 1.00	in
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	330 to 400	°F
Cylinder Zone 2 Temp.	340 to 410	°F
Cylinder Zone 3 Temp.	350 to 420	°F



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Extrusion	Nominal Value	Unit
Cylinder Zone 5 Temp.	360 to 430	°F
Die Temperature	374 to 440	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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

² Type 1, 20 in/min

³ Method Ba, Angle (Unnicked), 20 in/min

⁴ Type A

⁵ Type 1

⁶ 15 sec

⁷ 5 sec

⁸ 1 sec

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