



Sarlink® TPV 2455-1

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

Sarlink TPV 2455-1 is a high performance thermoplastic vulcanizate used in a variety of consumer and industrial applications, including seals and gaskets, where copper stabilization is required. Sarlink TPV 2455-1 is a medium hardness, low density grade with good resiliency and compression set designed for injection molding and extrusion.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Copper Contact Stabilized • Good Adhesion	• Good Processability • Low Density • Low Specific Gravity	• Medium Hardness • Resilient
Uses	• Gaskets • Glazing • Grommets	• Hose • Industrial Applications • Plugs	• Rubber Replacement • Seals
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.940		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	300	psi	ASTM D412
Tensile Strength (Yield)	540	psi	ASTM D412
Tensile Elongation (Break)	300	%	ASTM D412
Tear Strength	110	lbf/in	ASTM D624
Compression Set			ASTM D395B
73°F, 22 hr	22	%	
212°F, 22 hr	42	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	55		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-76.0	°F	ASTM D746

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	3.0	hr

Sarlink® TPV 2455-1

Teknor Apex Company - Thermoplastic Vulcanizate

Injection	Nominal Value	Unit
Rear Temperature	420 to 460	°F
Middle Temperature	420 to 460	°F
Front Temperature	420 to 460	°F
Nozzle Temperature	420 to 460	°F
Processing (Melt) Temp	420 to 460	°F
Mold Temperature	60 to 90	°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

Injection Notes

Product should be dried prior to processing as shown

Extrusion	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	400 to 440	°F
Cylinder Zone 2 Temp.	400 to 440	°F
Cylinder Zone 3 Temp.	400 to 440	°F
Cylinder Zone 4 Temp.	400 to 440	°F
Cylinder Zone 5 Temp.	400 to 440	°F
Die Temperature	400 to 440	°F

Extrusion Notes

Product should be dried prior to processing. Screw Speed: 30 to 100 rpm

Notes

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