

# Sarlink® TPV 2455-1

Thermoplastic Vulcanizate

Teknor Apex Company

Message:

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.

General Information			
Features	Low Specific Gravity		
	Low density		
	Workability, good		
	Good adhesion		
	Good chemical resistance		
	Copper contact stability		
	Elastic		
	Medium hardness		
Uses	Plug		
	Washer		
	Washer		
	Industrial application		
	Pipe		
	Seals		
	Rubber substitution		
	Assembled glass		
RoHS Compliance	RoHS compliance		
Appearance	Opacity		
	Black		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	55		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	2.07	MPa	ASTM D412
Tensile Strength (Yield)	3.72	MPa	ASTM D412
Tensile Elongation (Break)	300	%	ASTM D412
Tear Strength	19.3	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	22	%	ASTM D395B
100°C, 22 hr	42	%	ASTM D395B
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-60.0	°C	ASTM D746
Legal statement			

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Injection	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	3.0	hr
Rear Temperature	173 - 213	°C
Middle Temperature	179 - 219	°C
Front Temperature	184 - 224	°C
Nozzle Temperature	190 - 230	°C
Processing (Melt) Temp	190 - 230	°C
Mold Temperature	35 - 60	°C
Injection Pressure	1.38 - 6.89	MPa
Injection Rate	Fast	
Back Pressure	0.172 - 0.862	MPa
Screw Speed	50 - 120	rpm
Cushion	3.81 - 25.4	mm

#### Injection instructions

Product should be dried prior to processing as shown

Extrusion	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	166 - 204	°C
Cylinder Zone 2 Temp.	171 - 210	°C
Cylinder Zone 3 Temp.	177 - 216	°C
Cylinder Zone 4 Temp.	177 - 216	°C
Cylinder Zone 5 Temp.	182 - 221	°C
Die Temperature	190 - 227	°C

#### Extrusion instructions

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

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

