



Sarlink® TPV 24555

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

Sarlink TPV 24555 is a high performance thermoplastic vulcanizate used in automotive and industrial applications. Sarlink TPV 24555 is a medium hardness, low density, RoHS compliant grade exhibiting superior compression set and chemical resistance. This grade 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	• Good Weather Resistance • Low Density • Low Specific Gravity	• Lubricated • Medium Flow • Medium Hardness	• UV Stabilized
Uses	• Expansion Joint • Gaskets • Glazing	• Grommets • Plugs • Shock Absorbing Pads	• Tubing • Weatherstripping
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.950		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
Across Flow : Break	670	psi	
Flow : Break	630	psi	
Tensile Elongation			ASTM D412
Across Flow : Break	320	%	
Flow : Break	270	%	
Tear Strength	90.0	lbf/in	ASTM D624
Compression Set (212°F, 22 hr)	29	%	ASTM D395B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	60		
Shore A, 5 sec	55		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°F	ASTM D746

Sarlink® TPV 24555

Teknor Apex Company - Thermoplastic Vulcanizate

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air - Across Flow (275°F, 24 hr)	3.0	%	ASTM D573
Change in Ultimate Elongation in Air - Across Flow (275°F, 24 hr)	7.0	%	ASTM D573
Change in Durometer Hardness in Air			ASTM D573
Shore A, 275°F, 24 hr	60		
Change in Tensile Strength - Across Flow			ASTM D471
73°F, 70 hr, in IRM 903 Oil	22	%	
Change in Ultimate Elongation - Across Flow			ASTM D471
73°F, 70 hr, in IRM 903 Oil	32	%	
Change in Volume (77°F, 70 hr, in IRM 903 Oil)	23	%	ASTM D471

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	
Cylinder Zone 4 Temp.	355 to 425	°F	
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.