



Sarlink® TPV 24809-20

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

Sarlink 24809-20 is a very low durometer thermoplastic vulcanizate designed for industrial applications requiring UV resistance. Sarlink 24809-20 is low hardness, low density, RoHS compliant grade suitable for injection molding and extrusion.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Mold Release • Good Moldability • Good Processability • Light Stabilized	• Low Density • Low Flow • Low Hardness • Low Specific Gravity	• Soft • Without Fillers
Uses	• Expansion Joint • Gaskets • Glazing	• Grommets • Plugs • Rubber Replacement	• Shock Absorbing Pads • Tubing • Weatherstripping
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	0.892		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ASTM D412
Across Flow : 100% Strain	44.0	psi	
Flow : 100% Strain	52.0	psi	
Tensile Stress ²			ASTM D412
Across Flow : 300% Strain	129	psi	
Flow : 300% Strain	120	psi	
Tensile Strength ²			ASTM D412
Across Flow : Break	151	psi	
Flow : Break	137	psi	
Tensile Elongation ²			ASTM D412
Across Flow : Break	340	%	
Flow : Break	310	%	
Tear Strength ²			ASTM D624
Across Flow	21.0	lbf/in	
Flow	24.0	lbf/in	
Compression Set ³			ASTM D395B
73°F, 22 hr	10	%	
158°F, 22 hr	24	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	14		
Shore A, 5 sec, Injection Molded	10		

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	300 to 360	°F
Middle Temperature	320 to 360	°F
Front Temperature	330 to 370	°F
Nozzle Temperature	350 to 400	°F
Processing (Melt) Temp	350 to 400	°F
Mold Temperature	80 to 120	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Fast	
Back Pressure	25.0 to 125	psi
Screw Speed	40 to 100	rpm
Cushion	0.150 to 1.00	in

Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	290 to 330	°F
Cylinder Zone 2 Temp.	300 to 340	°F
Cylinder Zone 3 Temp.	310 to 350	°F
Cylinder Zone 4 Temp.	310 to 350	°F
Cylinder Zone 5 Temp.	310 to 360	°F
Die Temperature	310 to 350	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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

² Die C, 20 in/min

³ Type 1