



Sarlink® TPV 24378N XRD (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

Sarlink TPV 24378N XRD is a high performance thermoplastic vulcanizate used in electrical and industrial applications. Sarlink TPV 24378N XRD is a high hardness, high density, flame retardant grade exhibiting superior sunlight resistance. This grade can be processed by injection molding and extrusion.

General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Brominated • Electrically Insulating • Flame Retardant • Good Colorability	• Halogenated • High Density • High Hardness • High Specific Gravity	• Low Flow • Slip • Sunlight Resistant • UV Stabilized
Uses	• Cable Jacketing • Electrical/Electronic Applications	• Industrial Applications • Insulation	• Jacketing
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Opaque	
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.29		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	900	psi	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	82		
Shore A, 5 sec	78		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.04 in, NC	V-2		
0.06 in, NC	V-0		
Oxygen Index	26	%	ASTM D2863

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	390 to 410	°F

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Injection	Nominal Value	Unit
Middle Temperature	400 to 420	°F
Front Temperature	410 to 430	°F
Nozzle Temperature	420 to 440	°F
Processing (Melt) Temp	420 to 440	°F
Mold Temperature	95 to 150	°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

This material should be dried for 3 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	380 to 400	°F
Cylinder Zone 2 Temp.	390 to 410	°F
Cylinder Zone 3 Temp.	400 to 420	°F
Cylinder Zone 4 Temp.	405 to 425	°F
Cylinder Zone 5 Temp.	410 to 430	°F
Die Temperature	420 to 440	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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