

Sarlink® TPV 24824

Teknor Apex Company - Thermoplastic Vulcanizate

Thursday, June 29, 2017

General Information

Product Description

Sarlink TPV 24824 is a very low durometer thermoplastic vulcanizate designed for industrial applications. Sarlink TPV 24824 is a low hardness, low density, lubricated grade suitable for both injection molding and extrusion.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Light Stabilized • Low Density • Low Flow	• Low Hardness • Low Specific Gravity • Lubricated	• Slip
Uses	• Expansion Joint • Gaskets • 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
Specific Gravity	0.920		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ASTM D412
Across Flow : 100% Strain	94.0	psi	
Flow : 100% Strain	97.0	psi	
Tensile Stress ²			ASTM D412
Across Flow : 300% Strain	254	psi	
Flow : 300% Strain	251	psi	
Tensile Strength ²			ASTM D412
Across Flow : Break	370	psi	
Flow : Break	336	psi	
Tensile Elongation ²			ASTM D412
Across Flow : Break	410	%	
Flow : Break	390	%	
Tear Strength ²			ASTM D624
Across Flow	53.0	lbf/in	
Flow	54.0	lbf/in	
Compression Set ³			ASTM D395B
73°F, 22 hr	10	%	
158°F, 22 hr	27	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	30		
Shore A, 5 sec, Injection Molded	26		
Thermal	Nominal Value	Unit	Test Method
RTI Elec	122	°F	UL 746



Revision Date: 12/19/2016

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.

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Thermal	Nominal Value	Unit	Test Method
RTI Imp	122	°F	UL 746
RTI Str	122	°F	UL 746

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 to 0.07 in, All Colors)	HB		UL 94

Legal Statement

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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	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

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.	350 to 420	°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.

² Die C, 20 in/min

³ Type 1

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