Sarlink® TPV X11059DB

Teknor Apex Company - Thermoplastic Vulcanizate

Thursday, June 29, 2017

General Information

Product Description

SARLINK® TPV 11000 series are engineered low friction slip coating materials designed primarily for demanding automotive and industrial applications. SARLINK® TPV X11059DB is a high hardness, low density, high tensile grade with good UV resistance and superior abrasion resistance and can be co-extruded with TPE-S, TPE-V, and EPDM.

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Abrasion Resistant • Bondability • Chemical Resistant • Good Adhesion • Good Processability	• High Hardness • High Heat Resistance • High Tensile Strength • Low Compression Set • Low Density	• Low Friction • Low Specific Gravity • Specialty Grade • UV Resistant
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Window Encapsulation	• Coating Applications • Industrial Applications • Rubber Replacement	• Weatherstripping
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• DAIMLER DBL 5578 Color: Black	• VAG VW501 23 Color: Black	
Appearance	• Black	• Opaque	
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density			
--	0.960	g/cm³	ISO 1183
--	0.960	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (vs. Glass - Dynamic)	0.15		ASTM D1894
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			
Across Flow : Break	3480	psi	ISO 37
Across Flow : Break [2]	3480	psi	ASTM D412
Flow : Break	4060	psi	ISO 37
Flow : Break [2]	4060	psi	ASTM D412
Tensile Elongation			
Across Flow : Break	99	%	ISO 37
Across Flow : Break	99	%	ASTM D412
Flow : Break	30	%	ISO 37
Flow : Break	30	%	ASTM D412
Tear Strength - Across Flow			
--	540	lbf/in	ISO 34-1
-- [3]	540	lbf/in	ASTM D624

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Hardness	Nominal Value	Unit	Test Method
Shore Hardness			
Shore D, 5 sec, Injection Molded	60		ISO 868
Shore D, 5 sec, Injection Molded	60		ASTM D2240

Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity			
392°F, 206 sec^-1	552	Pa·s	ISO 11443
392°F, 206 sec^-1	552	Pa·s	ASTM D3835

Additional Information

Co-extrusion with good adhesion to TPE-S
Co-extrusion with good adhesion to TPV
Co-extrusion with good adhesion to EPDM

Legal Statement

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	3.0 to 4.0	hr
Cylinder Zone 1 Temp.	350 to 410	°F
Cylinder Zone 2 Temp.	360 to 420	°F
Cylinder Zone 3 Temp.	380 to 440	°F
Cylinder Zone 4 Temp.	380 to 440	°F
Cylinder Zone 5 Temp.	380 to 440	°F
Die Temperature	380 to 440	°F

Extrusion Notes

Sarlink TPV X11059DB must be dried prior to processing

Notes

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

[2] Die C

[3] Method Ba, Angle (Unnicked)

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