



Sarlink® TPV 24045DB

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

SARLINK® TPV 24045DB is an economic general purpose thermoplastic vulcanizate with good mechanical properties. SARLINK® 24045DB is a high hardness, low density grade offered in Black for use in injection molded parts, extrusions such as weather-stripping and blow-moulded applications.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Fatigue Resistant • General Purpose • Good Adhesion • Good Moldability	• Good Processability • Good Surface Finish • Good Weather Resistance • High Hardness • Low Density	• Low Specific Gravity • Medium Heat Resistance • Resilient
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Interior Parts • Automotive Under the Hood	• Blow Molding Applications • Grommets • Industrial Applications • Plugs	• Profiles • Rubber Replacement
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Blow Molding • Extrusion	• Extrusion Blow Molding • Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.940		ASTM D792
Density	0.940	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain)	1740	psi	ASTM D412
Tensile Stress - Across Flow (100% Strain)	1740	psi	ISO 37
Tensile Strength - Across Flow (Break)	2900	psi	ASTM D412
Tensile Stress - Across Flow (Break)	2900	psi	ISO 37
Tensile Elongation - Across Flow (Break)	700	%	ASTM D412
Tensile Elongation - Across Flow (Break)	700	%	ISO 37
Tear Strength - Across Flow	750	lbf/in	ASTM D624
Tear Strength - Across Flow ²	748	lbf/in	ISO 34-1
Compression Set (158°F, 22 hr)	75	%	ASTM D395
Compression Set (158°F, 22 hr)	75	%	ISO 815
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 5 sec, Injection Molded)	50		ASTM D2240
Shore Hardness (Shore D, 5 sec, Injection Molded)	50		ISO 868
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s			
392°F	310	Pa·s	ASTM D3835
392°F	310	Pa·s	ISO 11443

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0	hr
Rear Temperature	356 to 419	°F
Middle Temperature	356 to 419	°F
Front Temperature	356 to 419	°F
Nozzle Temperature	369 to 428	°F
Processing (Melt) Temp	365 to 428	°F
Mold Temperature	50 to 131	°F
Back Pressure	14.5 to 145	psi
Screw Speed	100 to 200	rpm
Extrusion	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	356 to 392	°F
Cylinder Zone 2 Temp.	356 to 401	°F
Cylinder Zone 3 Temp.	369 to 410	°F
Cylinder Zone 4 Temp.	369 to 410	°F
Melt Temperature	383 to 419	°F
Die Temperature	383 to 419	°F
Take-Off Roll	68 to 122	°F

Extrusion Notes

Screen Pack: 20 to 60 mesh
Screw: general purpose
Compression Ratio: 3:1

Notes

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

² Method Ba, Angle (Unnicked)