



Sarlink® TPV 90090B

Teknor Apex Company - Thermoplastic Vulcanizate

General Information

Product Description

Sarlink 90090B is a high-flow thermoplastic vulcanizate designed for a variety of automotive applications including exterior parts. Sarlink 90090B is a high hardness TPV that is suitable for injection moulding, including 2K-moulding with various types of PP and reinforced PP.

General

Material Status	• Preliminary Data
Availability	• Europe
Features	• Chemical Resistant • High Hardness • Low Specific Gravity • Good Mold Release • Low Density
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Exterior Trim
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• VAG VW501 23 Color: Black
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ISO 1133
Molding Shrinkage (0.0787 in)	1.1 to 1.6	%	ISO 294-4
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain)	986	psi	ISO 37
Tensile Stress - Across Flow (Break)	1320	psi	ISO 37
Tensile Elongation - Across Flow (Break)	620	%	ISO 37
Compression Set (158°F, 22 hr)	80	%	ISO 815
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, 5 sec, Injection Molded	91		
Shore D, 5 sec, Injection Molded	33		
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - 206 1/s, Capillary (392°F)	190	Pa·s	ISO 11443

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	3.0	hr
Rear Temperature	302 to 392	°F
Middle Temperature	347 to 419	°F

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Injection	Nominal Value	Unit
Front Temperature	374 to 437	°F
Nozzle Temperature	392 to 464	°F
Processing (Melt) Temp	392 to 464	°F
Mold Temperature	50 to 150	°F
Back Pressure	10.0 to 150	psi
Screw Speed	100 to 200	rpm
Screw L/D Ratio	20.0:1.0	

Notes

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