

Stellarchem SV-B40D TPV Compound

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

Material Notes:

This grade of Stellarchem SV series is a dynamic crosslinked, EPDM/PP compound. It's design to replace thermoset elastomers, such as EPDM, and traditional Thermoplastic TPVs. It can be process on conventional thermoplastics equipment for extrusion or blow molding, provides the performance of vulcanized rubber with the advantage of low cost thermoplastic processing. It's a soft, EPDM/PP based, completely recyclable & colorable elastomer material. It's formulated to overmold to PP thermoplastics in normal dual injection & extrusion processing. Information provided by Stellarchem Polymer & Industrial

Order this product through the following link:

http://www.lookpolymers.com/polymer_Stellarchem-SV-B40D-TPV-Compound.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ASTM D792
Particle Mesh Size	80 - 150 Mesh	80 - 150 Mesh	
Melt Flow	78 g/10 min	78 g/10 min	
	@Load 10.0 kg, Temperature 230 Â°C	@Load 22.0 lb, Temperature 446 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	40	40	ASTM D2240
Tensile Strength, Ultimate	17.3 MPa	2500 psi	ASTM D412
Elongation at Break	770 %	770 %	ASTM D412
100% Modulus	0.0980 GPa	14.2 ksi	ASTM D412
Tear Strength	95.1 kN/m	543 pli	ASTM D412

Processing Properties	Metric	English	Comments
Processing Temperature	160 - 170 Â°C	320 - 338 Â°F	Metering Temperature, Extrusion
Rear Barrel Temperature	150 - 160 Â°C	302 - 320 Â°F	Extrusion
	160 - 190 Â°C	320 - 374 Â°F	Injection Molding
Middle Barrel Temperature	155 - 165 Â°C	311 - 329 Â°F	Transition, Extrusion
	170 - 190 Â°C	338 - 374 Â°F	Injection Molding
Front Barrel Temperature	170 - 180 Â°C	338 - 356 Â°F	Extrusion
	180 - 200 Â°C	356 - 392 Â°F	Injection Molding

Processing Properties	Metric 10°C	English 10°F	Comments olding
Die Temperature	170 - 180 C	338 - 356 F	Extrusion
Melt Temperature	150 - 180 C	302 - 356 F	Extrusion
	160 - 200 C	320 - 392 F	Injection Molding
Mold Temperature	25.0 - 40.0 C	77.0 - 104 F	Injection Molding
Injection Pressure	5.00 - 40.0 MPa	725 - 5800 psi	Injection Molding
Back Pressure	0.500 - 1.00 MPa	72.5 - 145 psi	Injection Molding
Screw Speed	60 - 100 rpm	60 - 100 rpm	Extrusion
	100 - 200 rpm	100 - 200 rpm	Injection Molding

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