

Stellarchem SE/PA745B TPE Compound

Category : Polymer , Thermoplastic , Elastomer, TPE , Olefinic TPE

Material Notes:

This grade of Stellarchem TPE is shear dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion. It's a soft, elastomeric polyolefin based, completely recyclable, colorable & non-hygroscopic thermoplastics elastomer material. Information provided by Stellarchem Polymer & Industrial

Order this product through the following link:

http://www.lookpolymers.com/polymer_Stellarchem-SEPA745B-TPE-Compound.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in ³	
Particle Mesh Size	80 - 150 Mesh	80 - 150 Mesh	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45	45	ASTM D2240
Tensile Strength, Ultimate	29.4 MPa	4270 psi	ASTM D792, Die C
Elongation at Break	360 %	360 %	ASTM D412
Tear Strength	14.0 kN/m	80.1 pli	ASTM D624, Die C
Compression Set	17 % @Temperature 23.0 Â°C, Time 79200 sec	17 % @Temperature 73.4 Â°F, Time 22.0 hour	ASTM D395, B

Thermal Properties	Metric	English	Comments
Flammability Test	1.0 @Thickness 1.50 mm	1.0 @Thickness 0.0591 in	ASTM D635

Processing Properties	Metric	English	Comments
Processing Temperature	220 - 240 Â°C	428 - 464 Â°F	Metering Temperature, Extrusion
Rear Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
	180 - 200 Â°C	356 - 392 Â°F	Extrusion
Middle Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
	200 - 220 Â°C	392 - 428 Â°F	Transition, Extrusion
Front Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Extrusion

Processing Properties	Metric	English	Comments
Nozzle Temperature	230 - 250 Â°C	446 - 482 Â°F	Injection Molding
Die Temperature	230 - 250 Â°C	446 - 482 Â°F	Extrusion
Melt Temperature	200 - 250 Â°C	392 - 482 Â°F	Injection Molding
	200 - 250 Â°C	392 - 482 Â°F	Extrusion
Mold Temperature	20.0 - 80.0 Â°C	68.0 - 176 Â°F	Injection Molding
Injection Pressure	3.40 - 10.3 MPa	493 - 1490 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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