

Stellarchem DIOSHYÂ® MP-960NC TPE Compound

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

Material Notes:

This grade of Stellarchem MP series is shear dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion. It's a soft, styrene block copolymers based, completely recyclable, colorable & non-hygroscopic thermoplastics 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-DIOSHY-MP-960NC-TPE-Compound.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/inÂ³	
Particle Mesh Size	80 - 150 Mesh	80 - 150 Mesh	
Melt Flow	26.9 g/10 min	26.9 g/10 min	JIS K7210

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	59	59	JIS K6301
Tensile Strength, Ultimate	0.883 MPa	128 psi	JIS K6301
Elongation at Break	662 %	662 %	JIS K6301
100% Modulus	0.00588 GPa	0.853 ksi	JIS K6301
300% Modulus	0.000490 GPa	0.0711 ksi	JIS K6301
Tear Strength	1.33 kN/m	7.62 pli	JIS K6301-B

Processing Properties	Metric	English	Comments
Processing Temperature	190 - 205 Â°C	374 - 401 Â°F	Metering Temperature, Extrusion
Rear Barrel Temperature	160 - 190 Â°C	320 - 374 Â°F	Injection Molding
	180 - 190 Â°C	356 - 374 Â°F	Extrusion
Middle Barrel Temperature	170 - 190 Â°C	338 - 374 Â°F	Injection Molding
	185 - 195 Â°C	365 - 383 Â°F	Transition, Extrusion
Front Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
	195 - 210 Â°C	383 - 410 Â°F	Extrusion
Nozzle Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding

Processing Properties	Metric	English	Comments
Melt Temperature	170 - 210 Â°C	338 - 410 Â°F	Injection Molding
	190 - 210 Â°C	374 - 410 Â°F	Extrusion
Mold Temperature	25.0 - 40.0 Â°C	77.0 - 104 Â°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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