

SK Chemicals SKYPEL M555DH General Grade

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP

Material Notes:

SKYPEL is a thermoplastic polyester elastomer (TPEE). It is a polymer resin having the property somewhere between plastics and rubber, which have various properties ranging from high hardness plastics to low hardness rubber. It is a kind of thermoplastic elastomer, which can be molded with general plastic mold by plasticizing at high temperature. Information provided by SK Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SK-Chemicals-SKYPEL-M555DH-General-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Water Absorption	0.70 %	0.70 %	24 hour; ASTM D570
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	ASTM D955
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 Â°C	10 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength, Ultimate	38.2 MPa	5550 psi	ASTM D638
Tensile Strength, Yield	6.37 MPa @Strain 5.00 %	925 psi @Strain 5.00 %	ASTM D638
	11.3 MPa @Strain 10.0 %	1640 psi @Strain 10.0 %	ASTM D638
Elongation at Break	600 %	600 %	ASTM D638
Flexural Modulus	0.206 GPa	29.9 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	160 kN/m	913 pli	ASTM D1004

Thermal Properties	Metric	English	Comments
Melting Point	202 Â°C	396 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	150 Â°C	302 Â°F	ASTM D648

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