

SK Chemicals SKYPEL G163D 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-G163D-General-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Water Absorption	0.30 %	0.30 %	24 hour; ASTM D570
Linear Mold Shrinkage	0.015 cm/cm	0.015 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	63	63	ASTM D2240
Tensile Strength, Ultimate	43.1 MPa	6260 psi	ASTM D638
Tensile Strength, Yield	10.8 MPa @Strain 5.00 %	1560 psi @Strain 5.00 %	ASTM D638
	17.2 MPa @Strain 10.0 %	2490 psi @Strain 10.0 %	ASTM D638
Elongation at Break	500 %	500 %	ASTM D638
Flexural Modulus	0.314 GPa	45.5 ksi	ASTM D790
Resilience	53	53	ASTM D2632
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	180 kN/m	1030 pli	ASTM D1004

Thermal Properties	Metric	English	Comments
Melting Point	212 Â°C	414 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa			

(56 psi)
Thermal Properties

130 Å°C
Metric

266 Å°F
English

ASTM D648
Comments

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