

SK Chemicals SKYPEL P147D Productivity 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-P147D-Productivity-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Water Absorption	1.7 %	1.7 %	24 hour; ASTM D570
Linear Mold Shrinkage	0.016 cm/cm	0.016 in/in	ASTM D955
Melt Flow	18 g/10 min @Load 2.16 kg, Temperature 230 Â°C	18 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	47	47	ASTM D2240
Tensile Strength, Ultimate	20.6 MPa	2990 psi	ASTM D638
Tensile Strength, Yield	3.92 MPa @Strain 5.00 %	569 psi @Strain 5.00 %	ASTM D638
	7.35 MPa @Strain 10.0 %	1070 psi @Strain 10.0 %	ASTM D638
Elongation at Break	300 %	300 %	ASTM D638
Flexural Modulus	0.117 GPa	16.9 ksi	ASTM D790
Resilience	54	54	ASTM D2632
Izod Impact, Notched	4.90 J/cm	9.18 ft-lb/in	ASTM D256
Tear Strength	95.0 kN/m	542 pli	ASTM D1004

Thermal Properties	Metric	English	Comments
Melting Point	219 Â°C	426 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa			

(56 psi)	62.0 A°C	144 A°F	ASTM D648
Thermal Properties	Metric	English	Comments

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