

SK Chemicals SKYPEL P155D 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-P155D-Productivity-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Water Absorption	1.1 %	1.1 %	24 hour; ASTM D570
Linear Mold Shrinkage	0.017 cm/cm	0.017 in/in	ASTM D955
Melt Flow	18 g/10 min @Load 2.16 kg, Temperature 230 °C	18 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength, Ultimate	29.9 MPa	4340 psi	ASTM D638
Tensile Strength, Yield	5.88 MPa @Strain 5.00 %	853 psi @Strain 5.00 %	ASTM D638
	12.3 MPa @Strain 10.0 %	1780 psi @Strain 10.0 %	ASTM D638
Elongation at Break	380 %	380 %	ASTM D638
Flexural Modulus	0.206 GPa	29.9 ksi	ASTM D790
Resilience	54	54	ASTM D2632
Izod Impact, Notched	4.90 J/cm	9.18 ft-lb/in	ASTM D256
Tear Strength	145 kN/m	827 pli	ASTM D1004

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ASTM D3418
Deflection Temperature at 0.46 MPa			

(56 psi)	107 °C	225 °F	ASTM D648
Thermal Properties	Metric	English	Comments

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