

SK Chemicals SKYPEL P137DW 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-P137DW-Productivity-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Water Absorption	2.4 %	2.4 %	24 hour; ASTM D570
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM D955
Melt Flow	24 g/10 min @Load 2.16 kg, Temperature 230 Â°C	24 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	37	37	ASTM D2240
Tensile Strength, Ultimate	15.7 MPa	2280 psi	ASTM D638
Tensile Strength, Yield	1.96 MPa @Strain 5.00 %	284 psi @Strain 5.00 %	ASTM D638
	3.92 MPa @Strain 10.0 %	569 psi @Strain 10.0 %	ASTM D638
Elongation at Break	390 %	390 %	ASTM D638
Flexural Modulus	0.0539 GPa	7.82 ksi	ASTM D790
Resilience	64	64	ASTM D2632
Izod Impact, Notched	3.24 J/cm	6.06 ft-lb/in	ASTM D256
Tear Strength	70.0 kN/m	399 pli	ASTM D1004

Thermal Properties	Metric	English	Comments
Melting Point	202 Â°C	396 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa			

(56 psi)	61.0 A°C	142 A°F	ASTM D648
Thermal Properties	Metric	English	Comments

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