

## SK Chemicals SKYPEL G172D 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-G172D-General-Grade.php](http://www.lookpolymers.com/polymer_SK-Chemicals-SKYPEL-G172D-General-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Water Absorption	0.30 %	0.30 %	24 hour; ASTM D570
Linear Mold Shrinkage	0.017 cm/cm	0.017 in/in	ASTM D955
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 230 Â°C	13 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	ASTM D2240
Tensile Strength, Ultimate	46.1 MPa	6680 psi	ASTM D638
Tensile Strength, Yield	22.6 MPa @Strain 5.00 %	3270 psi @Strain 5.00 %	ASTM D638
	29.4 MPa @Strain 10.0 %	4270 psi @Strain 10.0 %	ASTM D638
Elongation at Break	420 %	420 %	ASTM D638
Flexural Modulus	0.539 GPa	78.2 ksi	ASTM D790
Izod Impact, Notched	1.18 J/cm	2.20 ft-lb/in	ASTM D256
Tear Strength	205 kN/m	1170 pli	ASTM D1004

Thermal Properties	Metric	English	Comments
Melting Point	218 Â°C	424 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	150 Â°C	302 Â°F	ASTM D648

## **Contact Songhan Plastic Technology Co.,Ltd.**

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