

SKYPEL® G172D

SK Chemicals - Thermoplastic Polyester Elastomer

General Information

General

Material Status	• Commercial: Active	
Availability	• Asia Pacific	• North America
Forms	• Pellets	

ASTM and ISO Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.25	1.25	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13 g/10 min	13 g/10 min	ASTM D1238
Molding Shrinkage (Flow)	0.017 in/in	1.7 %	ASTM D955
Water Absorption (24 hr)	0.30 %	0.30 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
5.0 % Strain	3270 psi	22.6 MPa	
10 % Strain	4270 psi	29.4 MPa	
Tensile Strength (Break)	6680 psi	46.1 MPa	ASTM D638
Tensile Elongation (Break)	420 %	420 %	ASTM D638
Flexural Modulus	78200 psi	539 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	2.20 ft-lb/in	118 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	72	72	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	
Melting Temperature	424 °F	218 °C	

Additional Properties

Resilience, ASTM D2632: 64%
Tear Strength, ASTM D1004: 70 kN/m
Heat Distortion Temperature, ASTM D648: 61°C

Notes

¹ Typical properties: these are not to be construed as specifications.

