

SKYPEL® G163D

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	1.21	1.21	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10 g/10 min	10 g/10 min	ASTM D1238
Molding Shrinkage (Flow)	0.015 in/in	1.5 %	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	1560 psi	10.8 MPa	
10 % Strain	2490 psi	17.2 MPa	
Tensile Strength (Break)	6260 psi	43.1 MPa	ASTM D638
Tensile Elongation (Break)	500 %	500 %	ASTM D638
Flexural Modulus	45500 psi	314 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	No Break	No Break	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	63	63	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	
Melting Temperature	414 °F	212 °C	
Additional Properties			
Resilience, ASTM D2632: -%			
Tear Strength, ASTM D1004: 160 kN/m			
Heat Distortion Temperature, ASTM D648: 105°C			