

SKYPEL® G140DW

SK Chemicals - Thermoplastic Polyester Elastomer

General Information

General	
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.16		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	8.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
5.0% Strain, 0.0787 in, Injection Molded	341	psi	
10% Strain, 0.0787 in, Injection Molded	626	psi	
Tensile Strength ² (Break, 0.0787 in, Injection Molded)	3840	psi	ASTM D638
Tensile Elongation ²			ASTM D638
Break, 0.0787 in, Injection Molded	680	%	
Flexural Modulus ³	9670	psi	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴ (0.0787 in)	657	lb/in	ASTM D1004
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.250 in)	No Break		ASTM D256
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	40		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	158	°F	ASTM D648
Peak Crystallization Temperature (DSC) ⁵	307	°F	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+14	ohms	ASTM D257
Volume Resistivity	3.0E+13	ohms·cm	ASTM D257
Dissipation Factor (10 MHz)	0.054		ASTM D150
Additional Information	Nominal Value	Unit	Test Method
Resilience ⁶	57	%	ASTM D2632

Notes

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

² Type IV, 2.0 in/min

³ 0.051 in/min

⁴ 2.0 in/min

⁵ Heating rate 10°C/min.

⁶ Vertical rebound