

Shell Carilon® DP R1000 Polyketone (discontinued **)

Category : Polymer , Thermoplastic , Polyketone

Material Notes:

Shell announced in Feb. 2000 that the Carilon product line is being discontinued. CARILON® Thermoplastic Polymer DP R1000 is a high flow developmental engineering polyketone resin from Shell Chemical Company. Due to its balance of stiffness, toughness, chemical resistance, and easy processing, CARILON Polymer DP R1000 is expected to find application in the appliance, automotive, electrical, and other industries. This high flow, low viscosity polymer should be considered for moldings with long flow paths or thin walls. Data provided by Shell Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Shell-Carilon-DP-R1000-Polyketone-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Water Absorption	0.45 %	0.45 %	24 hour immersion; ASTM D570
Water Absorption at Saturation	2.25 %	2.25 %	at saturation; ASTM D570
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.028 cm/cm	0.028 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Ultimate	47.0 MPa	6820 psi	ASTM D638
Tensile Strength, Yield	64.0 MPa	9280 psi	ASTM D638
Elongation at Break	330 %	330 %	ASTM D638
Elongation at Yield	30 %	30 %	ASTM D638
Flexural Modulus	1.50 GPa	218 ksi	ASTM D790
Izod Impact, Notched	0.950 J/cm	1.78 ft-lb/in	
Izod Impact, Unnotched	NB	NB	ASTM D256
Gardner Impact	45.0 J	33.2 ft-lb	
Taber Abrasion, mg/1000 Cycles	12	12	1 kg load; CS-17 Wheel; ASTM D1044

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (68 psi)			
Deflection Temperature at 1.8 MPa (264 psi)	104 °C	219 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.50e+13 ohm-cm	3.50e+13 ohm-cm	ASTM D257
Surface Resistance	3.80e+12 ohm	3.80e+12 ohm	ASTM D257
Dielectric Constant	5.5	5.5	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	18.0 kV/mm	457 kV/in	Short Term; ASTM D149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Dissipation Factor	0.014	0.014	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	130 sec	130 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	UL746A

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	

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