

## Shell Carilon® DP R1130 Polyketone, 30% Glass Fiber Reinforced (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyketone , Polyketone, Glass Fiber Reinforced

### Material Notes:

Shell announced in Feb. 2000 that the Carilon product line is being discontinued. CARILON® Thermoplastic Polymer DP R1130 is a 30 percent glass fiber reinforced compound based on a developmental engineering polyketone resin available in natural and black from Shell Chemical Company. Due to the base polymer's balance of stiffness, toughness and chemical resistance coupled with its easy processing, this compound is expected to find application in the appliance, automotive, electrical and other industries. Data provided by Shell Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Shell-Carilon-DP-R1130-Polyketone-30-Glass-Fiber-Reinforced-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Shell-Carilon-DP-R1130-Polyketone-30-Glass-Fiber-Reinforced-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.42 %	0.42 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Ultimate	130 MPa	18900 psi	ASTM D638
Elongation at Break	3.1 %	3.1 %	ASTM D638
Tensile Modulus	8.30 GPa	1200 ksi	ASTM D638
Flexural Strength	200 MPa	29000 psi	at 5% strain; ASTM D790
Flexural Modulus	7.20 GPa	1040 ksi	ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -40.0 °C	@Thickness 0.126 in, Temperature -40.0 °F	
Taber Abrasion, mg/1000 Cycles	1.40 J/cm	2.62 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	42	42	1 kg load; CS-17 Wheel; ASTM D1044

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	218 °C	424 °F	ASTM D648

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	218 °C Metric	424 °F English	ASTM D648 Comments
Vicat Softening Point	215 °C	419 °F	ASTM D1525

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257
Dielectric Constant	5.2	5.2	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	5.7	5.7	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	24.0 kV/mm	610 kV/in	Short Term; ASTM D149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Arc Resistance	0.012	0.012	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	0.040	0.040	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Melt Temperature	145 sec	145 sec	ASTM D495
	600 V	600 V	UL746A

Processing Properties	Metric	English	Comments
Melt Temperature	250 °C	482 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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