

Shell Carilon® D26CX100 Polyketone, Advanced Extrusion Grade (discontinued **)

Category : Polymer , Thermoplastic , Polyketone

Material Notes:

Shell announced in Feb. 2000 that the Carilon product line is being discontinued. CARILON Polymer D26CX100 is an extrusion grade with mechanical properties that classify it as an engineering thermoplastic. This grade combines high melt strength and viscosity with high chemical resistance and barrier performance. Moreover, this material exhibits a high impact resistance, both at room temperature and at lower temperatures, and good creep performance. CARILON Polymer D26CX100 can also withstand short-term exposure to elevated temperatures. CARILON Polymer D26CX100 has been designed for demanding extrusion processes. This grade should be considered for liners, pipes and large blow moldings. Data provided by Shell Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Shell-Carilon-D26CX100-Polyketone-Advanced-Extrusion-Grade-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
Moisture Absorption at Equilibrium	0.53 %	0.53 %	at 50% RH at Equilibrium; ASTM D570
Water Absorption at Saturation	2.1 %	2.1 %	at saturation; ASTM D570
Melt Flow	2.7 g/10 min @Load 2.16 kg, Temperature 240 °C	2.7 g/10 min @Load 4.76 lb, Temperature 464 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	63.0 MPa	9140 psi	ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	ASTM D638
Elongation at Break	230 %	230 %	ASTM D638
Elongation at Yield	25 %	25 %	ASTM D638
Tensile Modulus	1.60 GPa	232 ksi	ASTM D638
Flexural Modulus	1.60 GPa	232 ksi	ASTM D790
Izod Impact, Notched	2.70 J/cm	5.06 ft-lb/in	
Izod Impact, Unnotched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	220 °C Metric	428 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	ASTM D648
Vicat Softening Point	210 °C	410 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	240 °C	464 °F	At Die

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