

SCHULATEC® PEEK WR 30 NV 12

Polyetheretherketone

A. Schulman Europe

Message:

polyetheretherketone, anti-friction/anti-wear with PTFE, graphite and carbon fiber, low viscosity

General Information			
Filler / Reinforcement	Carbon\Graphite\PTFE,30% Filler by Weight		
Processing Method	Extrusion		
	Injection Molding		
Resin ID (ISO 1043)	PEEK		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (400°C/2.16 kg)	14	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13600	MPa	ASTM D638
Tensile Strength	143	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	214	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256
Unnotched Izod Impact	430	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ¹ (1.8 MPa, Annealed)	306	°C	ASTM D648
Fill Analysis	Nominal Value	Unit	
Melt Viscosity (204°C, 1000 sec ⁻¹)	240000	mPa · s	
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	3.0 to 6.0	hr	
Rear Temperature	360 to 370	°C	
Middle Temperature	380 to 390	°C	
Front Temperature	390 to 400	°C	
Nozzle Temperature	360 to 380	°C	
Processing (Melt) Temp	390	°C	
Mold Temperature	170 to 190	°C	
NOTE			

1.

Measured on annealed samples 3,2
mm thick, 200°C/2h

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