

SCHULATEC® PEEK CF 30 NV 12

Polyetheretherketone

A. Schulman Europe

Message:

30 % carbon fiber reinforced polyetheretherketone, low viscosity

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Processing Method	Extrusion		
	Injection Molding		
Resin ID (ISO 1043)	PEEK		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (400°C/2.16 kg)	11	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	25400	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	218	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.7	%	ISO 527-2/1A/5
Flexural Modulus	21500	MPa	ISO 178
Flexural Stress	319	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	8.5	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	43	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ¹ (1.8 MPa, Annealed)	315	°C	ASTM D648
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94, IEC 60695-11-10, -20
0.800 mm	V-0		
1.60 mm	V-0		
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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