

SCHULATEC® PEEK GF 30 NV 12

Polyetheretherketone

A. Schulman Europe

Message:

30 % glass fiber reinforced polyetheretherketone, low viscosity

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Processing Method	Extrusion		
	Injection molding		
Resin ID (ISO 1043)	PEEK		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (400°C/2.16 kg)	14.0	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11300	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	174	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	%	ISO 527-2/1A/5
Flexural Modulus	10800	MPa	ISO 178
Flexural Stress ¹ (3.2% strain)	286	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m²	ISO 179/1eA
23°C	9.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	75	kJ/m²	ISO 179/1eU
23°C	75	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	10	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	68	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 250	°C	ISO 75-2/Af
Flammability	Nominal Value		Test Method
Flame Rating			UL 94, IEC 60695-11-10, -20
0.800 mm	V-0		UL 94, IEC 60695-11-10, -20
1.60 mm	V-0		UL 94, IEC 60695-11-10, -20
Additional Information			

1.)
Not for use in food contact applications2.)
Not for use in medical or pharmaceutical applications

Injection	Nominal Value	Unit
Drying Temperature	150	°C
Drying Time	3.0 - 6.0	hr
Rear Temperature	360 - 370	°C
Middle Temperature	380 - 390	°C
Front Temperature	390 - 400	°C
Nozzle Temperature	360 - 380	°C
Processing (Melt) Temp	390	°C
Mold Temperature	170 - 190	°C

NOTE

1. At Break

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