

SCHULATEC® PEEK NV 12

Polyetheretherketone

A. Schulman Europe

Message:

unreinforced polyetheretherketone, low viscosity

General Information			
UL YellowCard	E86615-101339394		
Processing Method	Extrusion Injection Molding		
Resin ID (ISO 1043)	PEEK		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (400°C/2.16 kg)	36	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4000	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	102	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	10 to 20	%	ISO 527-2/1A/50
Flexural Modulus	3900	MPa	ISO 178
Flexural Stress	134	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	4.9	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ¹ (1.8 MPa, Annealed)	160	°C	ASTM D648
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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