

Comco PEEK GF 30

Polyetheretherketone

Comco-Plastic GmbH

Message:

Comco PEEK GF 30 is a Polyetheretherketone (PEEK) material filled with 30% glass fiber. It is available in Europe. Primary attribute of Comco PEEK GF 30: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm³	ISO 1183
Water Absorption			
Saturation, 23°C	0.30	%	
Equilibrium, 23°C, 50% RH	0.14	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	99		ISO 2039-2
Ball Indentation Hardness	270	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6300	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	90.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	5.0	%	ISO 527-2
Compressive Stress			ISO 604
2% Strain	81.0	MPa	
1% Strain	41.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	35	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	°C	ISO 75-2/A
Melting Temperature	340	°C	
CLTE - Flow			
23 to 60°C	3.0E-5	cm/cm/°C	
23 to 100°C	3.0E-5	cm/cm/°C	
Thermal Conductivity	0.30	W/m/K	
Maximum Service Temperature			
in air continuously	250	°C	
in air for short periods	310	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093

Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Electric Strength	24	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.20		
1 MHz	3.60		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	2.0E-3		
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	V-0		
6.00 mm	V-0		
Oxygen Index	40	%	ISO 4589-2

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