

Comco PEEK CF 30

Polyetheretherketone

Comco-Plastic GmbH

Message:

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

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.41	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)	102		ISO 2039-2
Ball Indentation Hardness	325	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7700	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	130	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	5.0	%	ISO 527-2
Compressive Stress			ISO 604
2% Strain	97.0	MPa	
1% Strain	49.0	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	2.5E-5	cm/cm/°C	
23 to 100°C	2.5E-5	cm/cm/°C	
Thermal Conductivity	0.92	W/m/K	
Maximum Service Temperature			
in air continuously	250	°C	
in air for short periods	310	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 1.0E+5	ohms · cm	IEC 60093

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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Recommended distributors for this material

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