

WELLAMID Nylon 6000 CF 18 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000 CF 18 HWCP is a Polyamide 6 (Nylon 6) material filled with 18% carbon fiber. It is available in Europe.

Important attributes of WELLAMID Nylon 6000 CF 18 HWCP are:

Flame Rated

Heat Stabilizer

General Information				
Filler / Reinforcement		Carbon Fiber,18% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.20	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 4.00 mm	0.90	--	%	
Flow : 4.00 mm	0.30	--	%	
Water Absorption				
(Equilibrium, 23°C, 50% RH)	2.0 to 2.5	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13000	9500	MPa	ISO 527-2
Tensile Stress (Break)	160	100	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	4.5	%	ISO 527-2/5
Flexural Modulus	11500	--	MPa	DIN 52457
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	17	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40	75	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	--	°C	ISO 75-2/A
Vicat Softening Temperature	200	--	°C	ISO 306/B50
Melting Temperature	215	--	°C	
CLTE - Flow (23 to 80°C)	2.5E-5	--	cm/cm/°C	DIN 53752
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	< 20	--	ohms	IEC 60093
Volume Resistivity	< 10	--	ohms · cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method

Flame Rating			UL 94
1.60 mm	HB	--	
3.20 mm	HB	--	
Injection	Dry	Unit	
Processing (Melt) Temp	260 to 290		°C
Mold Temperature	70.0 to 100		°C
Injection Rate	Moderate-Fast		

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