

WELLAMID Nylon 6600 CF 20 HWCP

Polyamide 66

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6600 CF 20 HWCP is a Polyamide 66 (Nylon 66) material filled with 20% carbon fiber. It is available in Europe.

Important attributes of WELLAMID Nylon 6600 CF 20 HWCP are:

Flame Rated

Heat Stabilizer

General Information				
Filler / Reinforcement		Carbon Fiber,20% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 4.00 mm	0.70	--	%	
Flow : 4.00 mm	0.20	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)		--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16000	12500	MPa	ISO 527-2
Tensile Stress (Break)	175	125	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	4.0	%	ISO 527-2/5
Flexural Modulus	13500	--	MPa	DIN 52457
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	16	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	38	72	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
Vicat Softening Temperature	230	--	°C	ISO 306/B50
Melting Temperature	255	--	°C	
CLTE - Flow (23 to 80°C)	3.5E-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	275 to 295		°C
Mold Temperature	80.0 to 100		°C
Injection Rate	Fast		

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