

WELLAMID Nylon 6000 MRCF 15/15 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000 MRCF 15/15 HWCP is a polyamide 6 (nylon 6) material, which contains 15% mineral fillers and 15% carbon fiber reinforced materials. This product is available in Europe.
The main features of WELLAMID Nylon 6000 MRCF 15/15 HWCP are:
flame retardant/rated flame
heat stabilizer

General Information				
Filler / Reinforcement		Mineral filler, 15% filler by weight Carbon fiber reinforced material, 15% filler by weight		
Additive		heat stabilizer		
Features		Thermal Stability		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	--	g/cm ³	ISO 1183
Molding Shrinkage				
Transverse flow: 4.00mm	0.70	--	%	
Flow: 4.00mm	0.50	--	%	
Water Absorption (Saturation, 23°C)	1.8 - 2.3	--	%	DIN 53495
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13000	9500	MPa	ISO 527-2
Tensile Stress	150	100	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	4.5	%	ISO 527-2/5
Flexural Modulus	11500	--	MPa	ISO 178
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, not annealed	215	--	°C	ISO 75-2/B
1.8 MPa, not annealed	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	1.0E+5	--	ohms	IEC 60093
Volume Resistivity	1.0E+5	--	ohms·cm	IEC 60093
Dielectric Strength	35	35	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	4.00	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.20		IEC 60250
Comparative Tracking Index	450	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.6 mm	HB	HB		UL 94
3.2 mm	HB	HB		UL 94
Injection	Dry	Unit		
Processing (Melt) Temp	260 - 290		°C	
Mold Temperature	70 - 100		°C	
Injection Rate	Fast			

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