

WELLAMID Nylon 6000 CFGV 15/15 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

PA6, 15 % carbon fibre reinforced, 15 % glass fibre reinforced, improved electrical conductivity, heat stabilized, virgin base polymer

General Information				
Filler / Reinforcement		Carbon Fiber,15% Filler by Weight		
		Glass Fiber,15% Filler by Weight		
Additive		Heat Stabilizer		
Features		Electrically Conductive		
		Heat Stabilized		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.31	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	0.80	--	%	
Flow : 2.00 mm	0.30	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8 to 2.3	--	%	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	4.5	%	ISO 527-2/5
Flexural Modulus	14000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	17	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	75	kJ/m ²	ISO 179/1eU
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	212	--	°C	ISO 11357-3
CLTE - Flow (23 to 80°C)	2.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+5	--	ohms	IEC 60093

Volume Resistivity	1.0E+5	--	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.50 mm	HB	--		
3.00 mm	HB	--		

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