

WELLAMID Nylon 6000 GV 30 HWUVCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000 GV 30 HWUVCP is a polyamide 6 (nylon 6) material containing a 30% glass fiber reinforced material. This product is available in Europe.

The main features of WELLAMID Nylon 6000 GV 30 HWUVCP are:

- flame retardant/rated flame
- heat stabilizer
- UV stability

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		heat stabilizer		
		UV stabilizer		
Features		UV Stabilized		
		Thermal Stability		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Molding Shrinkage				
Transverse flow: 4.00mm	0.80	--	%	
Flow: 4.00mm	0.20	--	%	
Water Absorption (Saturation, 23°C)	1.8 - 2.3	--	%	DIN 53495

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9300	6800	MPa	ISO 527-2
Tensile Stress	175	110	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2/5
Flexural Modulus	8200	--	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	30	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	92	110	kJ/m ²	ISO 179

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	220	--	°C	ISO 75-2/B
1.8 MPa, not annealed	210	--	°C	ISO 75-2/A
Vicat Softening Temperature	215	--	°C	ISO 306/B50

Melting Temperature	215	--	°C	
CLTE - Flow (23 to 80°C)	2.0E-5	--	cm/cm/°C	DIN 53752
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Dielectric Strength	40	35	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	4.00	7.00		IEC 60250
Dissipation Factor (1 MHz)	0.022	0.22		IEC 60250
Comparative Tracking Index	550	--	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	250 - 280		°C	
Mold Temperature	60 - 90		°C	
Injection Rate	Fast			

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