

# WELLAMID Nylon 6000 GV 50 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

## Message:

WELLAMID Nylon 6000 GV 50 HWCP is a polyamide 6 (nylon 6) material, which contains a 50% glass fiber reinforced material. This product is available in Europe.

The main features of WELLAMID Nylon 6000 GV 50 HWCP are:

flame retardant/rated flame

heat stabilizer

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight			
Additive	heat stabilizer			
Features	Thermal Stability			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				
Transverse flow: 4.00mm	0.70	--	%	
Flow: 4.00mm	0.15	--	%	
Water Absorption (Saturation, 23°C)	1.4 - 2.0	--	%	DIN 53495
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14500	10500	MPa	ISO 527-2
Tensile Stress	215	160	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	4.5	%	ISO 527-2/5
Flexural Modulus	13000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	23	36	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (23°C)	100	110	kJ/m <sup>2</sup>	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	215	--	°C	ISO 75-2/A
Vicat Softening Temperature	215	--	°C	ISO 306/B50
Melting Temperature	215	--	°C	
CLTE - Flow (23 to 80°C)	1.5E-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	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.016	0.16		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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#### Recommended distributors for this material

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