

WELLAMID Nylon 6000 GV 15 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000 GV 15 HWCP is a polyamide 6 (nylon 6) material, which contains a 15% glass fiber reinforced material. This product is available in Europe.
The main features of WELLAMID Nylon 6000 GV 15 HWCP are:
flame retardant/rated flame
heat stabilizer
The typical application field of WELLAMID Nylon 6000 GV 15 HWCP is: automotive industry

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 15% filler by weight		
Additive		heat stabilizer		
Features		Thermal Stability		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 4.00mm	0.90	--	%	ISO 294-4
Flow direction: 4.00mm	0.30	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0 - 2.5	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6000	3500	MPa	ISO 527-2
Tensile Stress (Break)	125	70.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	12	%	ISO 527-2/5
Flexural Modulus	5000	--	MPa	DIN 52457
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	20	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	52	95	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)	3.5E-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	35	35	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	4.00	7.00		IEC 60250
Dissipation Factor (1 MHz)	0.025	0.24		IEC 60250
Comparative Tracking Index	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		UL 94
3.20 mm	HB	--		UL 94
Injection	Dry	Unit		
Processing (Melt) Temp	250 - 280		°C	
Mold Temperature	60.0 - 90.0		°C	
Injection Rate	Moderate-Fast			

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