

WELLAMID Nylon 6000 GVS 10/20 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000 GVS 10/20 HWCP is a Polyamide 6 (Nylon 6) material filled with 20% glass bead and 10% glass fiber. It is available in Europe. Important attributes of WELLAMID Nylon 6000 GVS 10/20 HWCP are:
Flame Rated
Heat Stabilizer
Typical application of WELLAMID Nylon 6000 GVS 10/20 HWCP: Automotive

General Information				
Filler / Reinforcement		Glass Bead,20% Filler by Weight Glass Fiber,10% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 4.00 mm	0.70	--	%	
Flow : 4.00 mm	0.50	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8 to 2.3	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6200	3600	MPa	ISO 527-2
Tensile Stress (Break)	110	60.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	10	%	ISO 527-2/5
Flexural Modulus	5100	--	MPa	DIN 52457
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40 kJ/m ²	No Break		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	180	--	°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+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength	35	35	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	4.00	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.070		IEC 60250
Comparative Tracking Index	450	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		
3.20 mm	HB	--		
Injection	Dry	Unit		
Processing (Melt) Temp	250 to 280		°C	
Mold Temperature	60.0 to 90.0		°C	
Injection Rate	Fast			

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