

WELLAMID Nylon 6000/51 GV 30 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000/51 GV 30 HWCP is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Europe.

Important attributes of WELLAMID Nylon 6000/51 GV 30 HWCP are:

Flame Rated

Heat Stabilizer

Impact Modified

Impact Resistant

Typical application of WELLAMID Nylon 6000/51 GV 30 HWCP: Automotive

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
		Impact Modifier		
Features		Heat Stabilized		
		Impact Modified		
		Low Temperature Impact Resistance		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.29	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 4.00 mm	0.80	--	%	
Flow : 4.00 mm	0.20	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8 to 2.3	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8500	5500	MPa	ISO 527-2
Tensile Stress (Break)	150	90.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	7.0	%	ISO 527-2/5
Flexural Modulus	7200	--	MPa	DIN 52457
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	32	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	90	110	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°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)	2.0E-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
Electric Strength	40	35	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	4.00	7.00		IEC 60250
Dissipation Factor (1 MHz)	0.022	0.20		IEC 60250
Comparative Tracking Index	550	--	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	Moderate-Fast			

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