

WELLAMID Nylon 6000/505 GS 30 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000/505 GS 30 HWCP is a Polyamide 6 (Nylon 6) material filled with 30% glass bead. It is available in Europe.

Important attributes of WELLAMID Nylon 6000/505 GS 30 HWCP are:

- Flame Rated
- Heat Stabilizer
- Impact Modified
- Impact Resistant

General Information	
Filler / Reinforcement	Glass Bead,30% Filler by Weight
Additive	Heat Stabilizer
	Impact Modifier
Features	Good Impact Resistance
	Heat Stabilized
	Impact Modified

Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 4.00 mm	0.80 to 1.0	--	%	
Flow : 4.00 mm	0.80 to 1.0	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5 to 2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3600	1700	MPa	ISO 527-2
Tensile Stress (Break)	65.0	40.0	MPa	ISO 527-2/5
Tensile Strain (Break)	11	28	%	ISO 527-2/5
Flexural Modulus	3000	--	MPa	DIN 52457
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	20	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	75 kJ/m ²	No Break		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°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
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	0.20		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 270		°C	
Mold Temperature	60.0 to 90.0		°C	
Injection Rate	Moderate			

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