

# WELLAMID Nylon 6000/42 GS 30 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

## Message:

WELLAMID Nylon 6000/42 GS 30 HWCP is a polyamide 6 (nylon 6) material containing 30% glass beads. This product is available in Europe.

The main features of WELLAMID Nylon 6000/42 GS 30 HWCP are:

flame retardant/rated flame

Impact modification

heat stabilizer

General Information	
Filler / Reinforcement	Glass beads, 30% filler by weight
Additive	Impact modifier heat stabilizer
Features	Impact modification Thermal Stability

Physical	Dry	Conditioned	Unit	Test Method
Density	1.33	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				
Transverse flow: 4.00mm	0.80 - 1.3	--	%	
Flow: 4.00mm	0.80 - 1.3	--	%	
Water Absorption (Saturation, 23°C)	1.5 - 2.0	--	%	DIN 53495
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3100	1300	MPa	ISO 527-2
Tensile Stress	52.0	35.0	MPa	ISO 527-2/5
Tensile Strain (Break)	7.0	20	%	ISO 527-2/5
Flexural Modulus	2600	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	17	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (23°C)	50	80	kJ/m <sup>2</sup>	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	180	--	°C	ISO 75-2/B
1.8 MPa, not annealed	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
<b>Electrical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
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	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.20		IEC 60250
Comparative Tracking Index	450	--	V	IEC 60112
<b>Flammability</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating				UL 94
1.6 mm	HB	HB		UL 94
3.2 mm	HB	HB		UL 94
<b>Injection</b>	<b>Dry</b>	<b>Unit</b>		
Processing (Melt) Temp	250 - 270		°C	
Mold Temperature	60 - 90		°C	
Injection Rate	Fast			

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#### Recommended distributors for this material

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