

WELLAMID Nylon 6000/42 GVS 10/15 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000/42 GVS 10/15 HWCP is a polyamide 6 (nylon 6) material, which contains 10% glass fiber reinforcement and 15% glass beads. This product is available in Europe.
The main features of WELLAMID Nylon 6000/42 GVS 10/15 HWCP are:
flame retardant/rated flame
heat stabilizer

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 10% filler by weight Glass beads, 15% filler by weight		
Additive		heat stabilizer		
Features		Thermal Stability		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm ³	ISO 1183
Molding Shrinkage				
Transverse flow: 4.00mm	0.70	--	%	
Flow: 4.00mm	0.50	--	%	
Water Absorption (Saturation, 23°C)	1.8 - 2.3	--	%	DIN 53495
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5000	2900	MPa	ISO 527-2
Tensile Stress	95.0	55.0	MPa	ISO 527-2/5
Tensile Strain (Break)	5.0	15	%	ISO 527-2/5
Flexural Modulus	4000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	25	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	60	95	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	200	--	°C	ISO 75-2/B
1.8 MPa, not annealed	160	--	°C	ISO 75-2/A
Vicat Softening Temperature	185	--	°C	ISO 306/B50
Melting Temperature	215	--	°C	
CLTE - Flow (23 to 80°C)	3.0E-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
Dielectric Strength	35	35	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	4.00	7.00		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
1.6 mm	HB	HB		UL 94
3.2 mm	HB	HB		UL 94
Injection	Dry	Unit		
Processing (Melt) Temp	250 - 280		°C	
Mold Temperature	70 - 100		°C	
Injection Rate	Fast			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

