WELLAMID Nylon 6000 GVS 20/20 HWCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000 GVS 20/20 HWCP is a polyamide 6 (nylon 6) material, which contains 20% glass fiber reinforcement and 20% glass beads. This product is available in Europe.
The main features of WELLAMID Nylon 6000 GVS 20/20 HWCP are:
flame retardant/rated flame
heat stabilizer

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight Glass beads, 20% filler by weight			
Additive	heat stabilizer			
Features	Thermal Stability			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.45	--	g/cm³	ISO 1183
Molding Shrinkage				
Transverse flow: 4.00mm	0.70	--	%	
Flow: 4.00mm	0.50	--	%	
Water Absorption (Saturation, 23°C)	1.5 - 2.0	--	%	DIN 53495
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	8000	5500	MPa	ISO 527-2
Tensile Stress	150	95.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	10	%	ISO 527-2/5
Flexural Modulus	7000	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	8.0	18	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	65	95	kJ/m²	ISO 179
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	215	--	°C	ISO 75-2/B
1.8 MPa, not annealed	200	--	°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
Dielectric Strength	40	35	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	4.00	7.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.10		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			

Recommended distributors for this material

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