

WELLAMID Nylon 6600 CFGV 20/10 HWCP

Polyamide 66

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6600 CFGV 20/10 HWCP is a polyamide 66 (nylon 66) material, which contains 10% glass fiber reinforcement and 20% carbon fiber reinforcement. This product is available in Europe.
The main features of WELLAMID Nylon 6600 CFGV 20/10 HWCP are:
flame retardant/rated flame
heat stabilizer

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 10% filler by weight Carbon fiber reinforced material, 20% filler by weight		
Additive		heat stabilizer		
Features		Thermal Stability		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Molding Shrinkage				
Transverse flow: 4.00mm	0.70	--	%	
Flow: 4.00mm	0.20	--	%	
Water Absorption (Saturation, 23°C)	1.8 - 2.3	--	%	DIN 53495
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16500	13000	MPa	ISO 527-2
Tensile Stress	200	135	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	4.0	%	ISO 527-2/5
Flexural Modulus	14000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	22	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	50	85	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	250	--	°C	ISO 75-2/B
1.8 MPa, not annealed	250	--	°C	ISO 75-2/A
Vicat Softening Temperature	230	--	°C	ISO 306/B50
Melting Temperature	255	--	°C	
CLTE - Flow (23 to 80°C)	2.5E-5	--	cm/cm/°C	DIN 53752
Electrical	Dry	Conditioned	Unit	Test Method

Surface Resistivity	< 20	--	ohms	IEC 60093
Volume Resistivity	< 10	--	ohms·cm	IEC 60093
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	275 - 295		°C	
Mold Temperature	80 - 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

