

WELLAMID Nylon 6600-PA66-GV 20 HWV0CP

Polyamide 66

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6600-PA66-GV 20 HWV0CP is a polyamide 66 (nylon 66) material containing a 20% glass fiber reinforced material. This product is available in Europe.

The main features of WELLAMID Nylon 6600-PA66-GV 20 HWV0CP are:

flame retardant/rated flame

Flame Retardant

heat stabilizer

General Information	
UL YellowCard	E63957-557656
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight
Additive	heat stabilizer Flame retardancy
Features	Thermal Stability Flame retardancy

Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm ³	ISO 1183
Molding Shrinkage				
Transverse flow: 4.00mm	0.70	--	%	
Flow: 4.00mm	0.20	--	%	
Water Absorption (Saturation, 23°C)	2.0 - 2.5	--	%	DIN 53495
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8100	6000	MPa	ISO 527-2
Tensile Stress	110	70.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2/5
Flexural Modulus	7300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	16	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	60	90	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	235	--	°C	ISO 75-2/B
1.8 MPa, not annealed	225	--	°C	ISO 75-2/A

Vicat Softening Temperature	230	--	°C	ISO 306/B50
Melting Temperature	240	--	°C	
CLTE - Flow (23 to 80°C)	2.5E-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
Dielectric Strength	40	35	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	4.00	4.00		IEC 60250
Dissipation Factor (1 MHz)	0.015	0.15		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.8 mm	V-0	V-0		UL 94
1.6 mm	V-0	V-0		UL 94
3.2 mm	V-0	V-0		UL 94
Injection	Dry	Unit		
Processing (Melt) Temp	265 - 290		°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 1342475533

Email: sales@su-jiao.com

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

