WELLAMID Nylon 6600 CF 30 HWCP

Polyamide 66

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6600 CF 30 HWCP is a Polyamide 66 (Nylon 66) material filled with 30% carbon fiber. It is available in Europe.
Important attributes of WELLAMID Nylon 6600 CF 30 HWCP are:
Flame Rated
Heat Stabilizer

General Information				
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Heat Stabilized			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.27	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 4.00 mm	0.70	--	%	
Flow : 4.00 mm	0.20	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8 to 2.3	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	21000	16000	MPa	ISO 527-2
Tensile Stress (Break)	205	145	MPa	ISO 527-2/5
Tensile Strain (Break)	1.6	3.5	%	ISO 527-2/5
Flexural Modulus	18500	--	MPa	DIN 52457
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	7.0	18	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	42	78	kJ/m²	ISO 179
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	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	< 10	--	ohms	IEC 60093
Volume Resistivity	< 5.0	--	ohms·cm	IEC 60093
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**

Flame Rating			UL 94
1.60 mm	HB	--	
3.20 mm	HB	--	
Injection	Dry	Unit	
Processing (Melt) Temp	275 to 295	°C	
Mold Temperature	80.0 to 100	°C	
Injection Rate	Fast		

Recommended distributors for this material

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