

WELLAMID Nylon 6000/508 HWUVCP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000/508 HWUVCP is a Polyamide 6 (Nylon 6) material. It is available in Europe.

Important attributes of WELLAMID Nylon 6000/508 HWUVCP are:

- Flame Rated
- Good UV Resistance
- Heat Stabilizer
- Impact Modified
- Impact Resistant

General Information				
Additive		Heat Stabilizer		
		Impact Modifier		
		UV Stabilizer		
Features		Good UV Resistance		
		Heat Stabilized		
		Impact Modified		
		Low Temperature Impact Resistance		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 4.00 mm	0.80 to 1.2	--	%	
Flow : 4.00 mm	0.80 to 1.2	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.5 to 3.3	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2500	1100	MPa	ISO 527-2
Tensile Stress (Yield)	70.0	45.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.0	22	%	
Break	> 50	> 50	%	
Flexural Modulus	2000	--	MPa	DIN 52457
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	30	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	130	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	170	--	°C	ISO 306/B50
Melting Temperature	215	--	°C	
CLTE - Flow (23 to 80°C)	9.0E-5	--	cm/cm/°C	DIN 53752
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength	32	35	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.50	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.024	0.25		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		
3.20 mm	HB	--		
Injection	Dry	Unit		
Processing (Melt) Temp	245 to 265		°C	
Mold Temperature	40.0 to 80.0		°C	
Injection Rate	Moderate			

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