

WELLAMID Nylon 6000/42 CP

Polyamide 6

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6000/42 CP is a Polyamide 6 (Nylon 6) material. It is available in Europe.

Important attributes of WELLAMID Nylon 6000/42 CP are:

Flame Rated

Impact Modified

Typical application of WELLAMID Nylon 6000/42 CP: Automotive

General Information				
Additive		Impact Modifier		
Features		Impact Modified		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	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	2400	1000	MPa	ISO 527-2
Tensile Stress (Yield)	65.0	40.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.5	25	%	
Break	> 50	> 50	%	
Flexural Modulus	1900	--	MPa	DIN 52457
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	32	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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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

