

WELLAMID Nylon 6600 PA-66-HWL

Polyamide 66

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6600 PA-66-HWL is a Polyamide 66 (Nylon 66) material. It is available in Europe.

Important attributes of WELLAMID Nylon 6600 PA-66-HWL are:

Flame Rated

Flame Retardant

Heat Stabilizer

Typical application of WELLAMID Nylon 6600 PA-66-HWL: Automotive

General Information				
UL YellowCard		E63957-247537		
Additive		Flame Retardant		
		Heat Stabilizer		
Features		Flame Retardant		
		Heat Stabilized		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	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 3.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3200	1300	MPa	ISO 527-2
Tensile Stress (Yield)	85.0	60.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.0	20	%	
Break	15	> 50	%	
Flexural Modulus	2800	--	MPa	DIN 52457
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	17	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	200	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	--	°C	ISO 75-2/A

Vicat Softening Temperature	230	--	°C	ISO 306/B50
Melting Temperature	255	--	°C	
CLTE - Flow (23 to 80°C)	8.5E-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
Electric Strength	30	30	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.40	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.025	0.20		IEC 60250
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-2	--		
1.60 mm	V-2	--		
3.20 mm	V-2	--		
Injection	Dry	Unit		
Processing (Melt) Temp	260 to 295		°C	
Mold Temperature	50.0 to 90.0		°C	
Injection Rate	Moderate-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

