

WELLAMID Nylon 6600/42 HWCP

Polyamide 66

CP-Polymer-Technik GmbH & Co. KG

Message:

WELLAMID Nylon 6600/42 HWCP is a Polyamide 66 (Nylon 66) material. It is available in Europe.

Important attributes of WELLAMID Nylon 6600/42 HWCP are:

Flame Rated

Heat Stabilizer

Impact Modified

Typical application of WELLAMID Nylon 6600/42 HWCP: Automotive

General Information				
Additive		Heat Stabilizer		
		Impact Modifier		
Features		Heat Stabilized		
		Impact Modified		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.11	--	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	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	6.0	25	%	
Break	25	> 50	%	
Flexural Modulus	2100	--	MPa	DIN 52457
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	25	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	150	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/A

Vicat Softening Temperature	200	--	°C	ISO 306/B50
Melting Temperature	255	--	°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	30	30	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.40	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.015	0.070		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	260 to 280		°C	
Mold Temperature	50.0 to 92.0		°C	
Injection Rate	Moderate-Fast			

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