

POLYBEST 6 PD GF30 natural

Polyamide 6

POLYMA Kunststoff GmbH & Co. KG

Message:

POLYBEST 6 PD GF30 natural is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding and is available in Europe. Primary characteristic: flame rated.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Appearance		Natural Color		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Molding Shrinkage	0.40 to 0.80	--	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.90	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	110		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	--	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	170	--	MPa	
Break	170	--	MPa	
Tensile Strain				ISO 527-2
Yield	3.0	--	%	
Break	3.0	--	%	
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength	10	--	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	80	--	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	218	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	208	--	°C	ISO 75-2/A
Continuous Use Temperature ¹	110	--	°C	
Vicat Softening Temperature	220	--	°C	ISO 306/B
Ball Pressure Test (165°C)	Pass	--		IEC 60695-10-2
Melting Temperature	222	--	°C	DSC

Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
3.20 mm	HB	--		
Glow Wire Flammability Index (2.00 mm)	650	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	90.0 to 100		°C	
Drying Time	> 3.0		hr	
Processing (Melt) Temp	230 to 260		°C	
Mold Temperature	70.0 to 90.0		°C	
NOTE				

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