

POLYBEST 6 PD natural

Polyamide 6
POLYMA Kunststoff GmbH & Co. KG

Message:
POLYBEST 6 PD natural is a Polyamide 6 (Nylon 6) product. It is available in Europe. Primary characteristic: flame rated.

General Information				
Appearance		Natural Color		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage	1.3	--	%	ISO 294-4
Water Absorption (23°C, 24 hr)	1.3	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	105		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2900	1000	MPa	ISO 527-2
Tensile Stress (Yield)	85.0	45.0	MPa	ISO 527-2
Tensile Strain (Break)	70	250	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength	80	5.5	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	--	°C	ISO 75-2/A
Continuous Use Temperature ¹	80.0	--	°C	
Vicat Softening Temperature	206	--	°C	ISO 306
Melting Temperature	222	--	°C	DSC
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+11	ohms	ASTM D257
Volume Resistivity	1.0E+15	1.0E+11	ohms · cm	ASTM D257
Comparative Tracking Index	> 600	--	V	VDE 0303/1
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-2	--		UL 94
Glow Wire Flammability Index	825	--	°C	IEC 60695-2-12
NOTE				

1. without load

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