

POLYBEST 6 PD GF15

Polyamide 6
POLYMA Kunststoff GmbH & Co. KG

Message:
POLYBEST 6 PD GF15 is a Polyamide 6 (Nylon 6) product filled with 15% glass fiber. It can be processed by injection molding and is available in Europe.
Primary characteristic: flame rated.

General Information				
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm ³	ISO 1183
Molding Shrinkage	0.45	--	%	ISO 294-4
Water Absorption (23°C, 24 hr)	1.1	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	110		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6500	3000	MPa	ISO 527-2
Tensile Stress (Break)	130	55.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	7.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Unnotched Izod Impact Strength	40	--	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	--	°C	ISO 75-2/A
Continuous Use Temperature ¹	110	--	°C	
Vicat Softening Temperature	210	--	°C	ISO 306/B
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	> 500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94

Glow Wire Flammability Index (2.00 mm)	650	--	°C	IEC 60695-2-12
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