

POLYBEST 6 PD GF50 black

Polyamide 6
POLYMA Kunststoff GmbH & Co. KG

Message:

POLYBEST 6 PD GF50 black is a Polyamide 6 (Nylon 6) product filled with 50% glass fiber. It can be processed by injection molding and is available in Europe. Primary characteristic: flame rated.

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Appearance		Black		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.57	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.15	--	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.80	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	110		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Break)	230	180	MPa	ASTM D638
Tensile Elongation (Break)	2.0	3.0	%	ASTM D638
Flexural Modulus	13500	8500	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Unnotched Izod Impact Strength	> 90	--	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	220	--	°C	
1.8 MPa, Unannealed	215	--	°C	
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	VDE 0303/1
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94

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