

POLYBEST 6 PD GK30 natural

Polyamide 6
POLYMA Kunststoff GmbH & Co. KG

Message:
POLYBEST 6 PD GK30 natural is a Polyamide 6 (Nylon 6) product filled with 30% glass bead. It is available in Europe. Primary characteristic: flame rated.

General Information				
Filler / Reinforcement		Glass Bead,30% Filler by Weight		
Appearance		Black		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.35	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.1	--	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.90	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	105		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Break)	70.0	40.0	MPa	ASTM D638
Tensile Elongation (Break)	8.0	12	%	ASTM D638
Flexural Modulus	4000	2500	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Unnotched Izod Impact Strength	> 30	--	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	190	--	°C	
1.8 MPa, Unannealed	95.0	--	°C	
Vicat Softening Temperature	195	--	°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	> 500	--	V	VDE 0303/1
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index	650	--	°C	IEC 60695-2-12

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

