

Comco PA 6 G GK 30

Polyamide 6
Comco-Plastic GmbH

Message:

Comco PA 6 G GK 30 is a Polyamide 6 (Nylon 6) material filled with 30% glass bead. It is available in Europe. Primary attribute of Comco PA 6 G GK 30: Flame Rated.

General Information				
Filler / Reinforcement		Glass Bead,30% Filler by Weight		
Appearance		Black		
		Natural Color		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.29	--	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D)	85	--		ISO 868
Ball Indentation Hardness	250	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5000	--	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	100	100	MPa	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	> 4.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	--		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	--	°C	ISO 75-2/A
Melting Temperature	225	--	°C	
CLTE - Flow				
23 to 60°C	8.0E-5	--	cm/cm/°C	
23 to 100°C	9.0E-5	--	cm/cm/°C	
Thermal Conductivity	0.30	--	W/m/K	
Maximum Service Temperature				
in air continuously	110	--	°C	
in air for short periods	170	--	°C	
Service Temperature - Minimum	-40	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method

Surface Resistivity	> 1.0E+13	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	> 1.0E+14	ohms·cm	IEC 60093
Electric Strength	30	--	kV/mm	IEC 60243-1
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
3.00 mm	HB	--		
6.00 mm	HB	--		

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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



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