

Comco PA 66 GF 30

Polyamide 66
Comco-Plastic GmbH

Message:

Comco PA 66 GF 30 is a Polyamide 66 (Nylon 66) material filled with 30% glass fiber. It is available in Europe. Primary attribute of Comco PA 66 GF 30: Flame Rated.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Appearance		Black		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.29	--	g/cm ³	ISO 1183
Water Absorption				
Saturation, 23°C	5.5	--	%	
Equilibrium, 23°C, 50% RH	1.7	--	%	
Water Absorption				ISO 62
after 24 h immersion in water : 23°C	30.0	--	mg	
after 96 h immersion in water : 23°C	56.0	--	mg	
Maximum Service Temperature				
in air continuously	120	--	°C	
in air for short periods	240	--	°C	
Service Temperature - Minimum	-20	--	°C	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	76	--		ISO 2039-2
Ball Indentation Hardness	165	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5900	3200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	100	75.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	5.0	12	%	ISO 527-2
Tensile Creep Modulus ¹ (1000 hr)	26.0	18.0	MPa	ISO 899-1
Compressive Stress				ISO 604
5% Strain	90.0	--	MPa	
2% Strain	55.0	--	MPa	
1% Strain	28.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength	6.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	> 50	--	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	6.0	11	kJ/m ²	ISO 180/2A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	150	--	°C	ISO 75-2/A
Melting Temperature	255	--	°C	
CLTE - Flow				
23 to 60°C	5.0E-5	--	cm/cm/°C	
23 to 100°C	6.0E-5	--	cm/cm/°C	
Thermal Conductivity	0.30	--	W/m/K	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+13	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	> 1.0E+13	ohms·cm	IEC 60093
Electric Strength	30	20	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.90	6.90		
1 MHz	3.60	3.90		
Dissipation Factor				IEC 60250
100 Hz	0.012	0.19		
1 MHz	0.014	0.040		
Comparative Tracking Index	475	475	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
3.00 mm	HB	--		
6.00 mm	HB	--		
NOTE				
1.	1% Strain			

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