

Comco PA 6 G

Polyamide 6
Comco-Plastic GmbH

Message:
Comco PA 6 G is a Polyamide 6 (Nylon 6) material. It is available in Europe. Primary attribute of Comco PA 6 G: Flame Rated.

General Information				
Appearance	Black			
	Blue			
	Natural Color			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm ³	ISO 1183
Water Absorption				
Saturation, 23°C	6.5	--	%	
Equilibrium, 23°C, 50% RH	2.2	--	%	
Water Absorption				ISO 62
after 24 h immersion in water : 23°C	44.0	--	mg	
after 96 h immersion in water : 23°C	83.0	--	mg	
Maximum Service Temperature				
in air continuously	120	--	°C	
in air for short periods	170	--	°C	
Service Temperature - Minimum				
	-30	--	°C	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	88	--		ISO 2039-2
Shore Hardness (Shore D)	80	--		ISO 868
Ball Indentation Hardness	165	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3400	1700	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	85.0	55.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	25	> 50	%	ISO 527-2
Tensile Creep Modulus ¹ (1000 hr)	22.0	10.0	MPa	ISO 899-1
Compressive Stress				ISO 604
5% Strain	92.0	--	MPa	
2% Strain	51.0	--	MPa	

1% Strain	26.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.5	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	--		ISO 179/1eU
Notched Izod Impact Strength	4.0	7.0	kJ/m ²	ISO 180/2A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	--	°C	ISO 75-2/A
Melting Temperature	220	--	°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	0.29	--	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+12	ohms·cm	IEC 60093
Electric Strength	25	17	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.60	6.60		
1 MHz	3.20	3.70		
Dissipation Factor				IEC 60250
100 Hz	0.012	0.14		
1 MHz	0.016	0.050		
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
3.00 mm	HB	--		
6.00 mm	HB	--		
Oxygen Index	25	--	%	ISO 4589-2
NOTE				
1.	1% Strain			

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