

Comco PA 4.6

Polyamide 46

Comco-Plastic GmbH

Message:

Comco PA 4.6 is a Polyamide 46 (Nylon 46) material. It is available in Europe. Primary attribute of Comco PA 4.6: Flame Rated.

General Information				
Appearance	Brown			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	--	g/cm ³	ISO 1183
Water Absorption				
Saturation, 23°C	9.5	--	%	
Equilibrium, 23°C, 50% RH	2.8	--	%	
Water Absorption				ISO 62
after 24 h immersion in water : 23°C	90.0	--	mg	
after 96 h immersion in water : 23°C	180.0	--	mg	
Maximum Service Temperature				
in air continuously	155	--	°C	
in air for short periods	200	--	°C	
Service Temperature - Minimum	-40	--	°C	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	92	--		ISO 2039-2
Ball Indentation Hardness	165	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3300	1300	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	100	55.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	25	> 100	%	ISO 527-2
Tensile Creep Modulus ¹ (1000 hr)	22.0	7.50	MPa	ISO 899-1
Compressive Stress				ISO 604
5% Strain	94.0	--	MPa	
2% Strain	45.0	--	MPa	
1% Strain	23.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.0	--	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength	No Break	--		ISO 179/1eU
Notched Izod Impact Strength	8.0	25	kJ/m ²	ISO 180/2A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	--	°C	ISO 75-2/A
Melting Temperature	295	--	°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	
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	15	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.80	7.40		
1 MHz	3.40	3.80		
Dissipation Factor				IEC 60250
100 Hz	9.0E-3	0.13		
1 MHz	0.019	0.060		
Comparative Tracking Index	400	400	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
3.00 mm	HB	--		
6.00 mm	HB	--		
Oxygen Index	24	--	%	ISO 4589-2
NOTE				
1.	1% Strain			

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