

Comco PC

Polycarbonate

Comco-Plastic GmbH

Message:

Comco PC is a Polycarbonate (PC) material. It is available in Europe. Primary attribute of Comco PC: Flame Rated.

General Information			
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Water Absorption			
Saturation, 23°C	0.15	%	
Equilibrium, 23°C, 50% RH	0.35	%	
Water Absorption			ISO 62
after 24 h immersion in water : 23°C	13.0	mg	
after 96 h immersion in water : 23°C	33.0	mg	
Maximum Service Temperature			
in air continuously	125	°C	
in air for short periods	135	°C	
Service Temperature - Minimum	-60	°C	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	75		ISO 2039-2
Ball Indentation Hardness	120	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	70.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	> 50	%	ISO 527-2
Tensile Creep Modulus ¹ (1000 hr)	17.0	MPa	ISO 899-1
Compressive Stress			ISO 604
5% Strain	72.0	MPa	
2% Strain	35.0	MPa	
1% Strain	18.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Notched Izod Impact Strength	9.0	kJ/m ²	ISO 180/2A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	130	°C	ISO 75-2/A
Melting Temperature	150	°C	

CLTE - Flow			
23 to 60°C	6.5E-5	cm/cm/°C	
23 to 100°C	6.5E-5	cm/cm/°C	
Thermal Conductivity	0.21	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	28	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.00		
1 MHz	3.00		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	8.0E-3		
Comparative Tracking Index	350	V	IEC 60112
Flammability	Nominal Value	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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