

Comco POM C

Acetal (POM) Copolymer

Comco-Plastic GmbH

Message:

Comco POM C is an Acetal (POM) Copolymer material. It is available in Europe. Primary attribute of Comco POM C: Flame Rated.

General Information			
Appearance	Black		
	Natural Color		

Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm³	ISO 1183
Water Absorption			
Saturation, 23°C	0.85	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Water Absorption			ISO 62
after 24 h immersion in water : 23°C	20.0	mg	
after 96 h immersion in water : 23°C	37.0	mg	
Maximum Service Temperature			
in air continuously	115	°C	
in air for short periods	140	°C	
Service Temperature - Minimum	-50	°C	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	84		ISO 2039-2
Ball Indentation Hardness	140	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3100	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	68.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	35	%	ISO 527-2
Tensile Creep Modulus ¹ (1000 hr)	13.0	MPa	ISO 899-1
Compressive Stress			ISO 604
5% Strain	67.0	MPa	
2% Strain	35.0	MPa	
1% Strain	19.0	MPa	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	> 150	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength	7.0	kJ/m²	ISO 180/2A

Thermal	Nominal Value	Unit	Test Method
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Heat Deflection Temperature (1.8 MPa, Unannealed)	105	°C	ISO 75-2/A
Melting Temperature	165	°C	
CLTE - Flow			
23 to 60°C	1.1E-4	cm/cm/°C	
23 to 100°C	1.3E-4	cm/cm/°C	
Thermal Conductivity	0.31	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.80		
1 MHz	3.80		
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	8.0E-3		
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	HB		
6.00 mm	HB		
Oxygen Index	15	%	ISO 4589-2
NOTE			
1.	1% Strain		

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