

Comco PETP

Polyethylene Terephthalate

Comco-Plastic GmbH

Message:

Comco PETP is a Polyethylene Terephthalate (PET) material. It is available in Europe. Primary attribute of Comco PETP: Flame Rated.

General Information			
Appearance	Black		
	Natural Color		
Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm³	ISO 1183
Water Absorption			
Saturation, 23°C	0.50	%	ISO 62
Equilibrium, 23°C, 50% RH	0.50	%	
Water Absorption			
after 24 h immersion in water : 23°C	6.0	mg	
after 96 h immersion in water : 23°C	13.0	mg	
Maximum Service Temperature			
in air continuously	115	°C	
in air for short periods	160	°C	
Service Temperature - Minimum	-20	°C	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	96		ISO 2039-2
Ball Indentation Hardness	170	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3700	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	90.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	15	%	ISO 527-2
Tensile Creep Modulus ¹ (1000 hr)	26.0	MPa	ISO 899-1
Compressive Stress			ISO 604
5% Strain	103	MPa	
2% Strain	51.0	MPa	
1% Strain	26.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	> 50	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength	2.0	kJ/m²	ISO 180/2A
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	°C	ISO 75-2/A
Melting Temperature	255	°C	
CLTE - Flow			
23 to 60°C	6.0E-5	cm/cm/°C	
23 to 100°C	8.0E-5	cm/cm/°C	
Thermal Conductivity	0.29	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	22	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.40		
1 MHz	3.20		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	0.014		
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	25	%	ISO 4589-2
NOTE			
1.	1% Strain		

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