

Comco PETP - GL

Polyethylene Terephthalate

Comco-Plastic GmbH

Message:

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

General Information			
Appearance	Grey		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Water Absorption			
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	94		ISO 2039-2
Ball Indentation Hardness	160	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	76.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	> 15	%	ISO 527-2
Tensile Creep Modulus ¹ (1000 hr)	23.0	MPa	ISO 899-1
Compressive Stress			ISO 604
5% Strain	95.0	MPa	
2% Strain	47.0	MPa	
1% Strain	24.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	> 30	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	2.5	kJ/m ²	ISO 180/2A
Thermal	Nominal Value	Unit	
Melting Temperature	340	°C	
Thermal Conductivity	0.24	W/m/K	
Maximum Service Temperature			
in air continuously	115	°C	
in air for short periods	160	°C	
Service Temperature - Minimum	-20	°C	
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	21	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		
NOTE			
1.	1% Strain		

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