

Comco Powerglide

Polyamide
Comco-Plastic GmbH

Message:

Comco Powerglide is a Polyamide material. It is available in Europe. Primary attribute of Comco Powerglide: Flame Rated.

General Information				
Appearance		Green		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm³	ISO 1183
Water Absorption				
Saturation, 23°C	6.3	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.8	--	%	
Water Absorption				
after 24 h immersion in water : 23°C	44.0	--	mg	
after 96 h immersion in water : 23°C	83.0	--	mg	
Maximum Service Temperature				
in air continuously	105	--	°C	
in air for short periods	170	--	°C	
Service Temperature - Minimum	-20	--	°C	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	83	--		ISO 2039-2
Shore Hardness (Shore D)	80	--		ISO 868
Ball Indentation Hardness	145	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3000	1450	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	70.0	45.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	25	> 50	%	ISO 527-2
Tensile Creep Modulus ¹ (1000 hr)	19.0	9.00	MPa	ISO 899-1
Compressive Stress				ISO 604
5% Strain	81.0	--	MPa	
2% Strain	45.0	--	MPa	
1% Strain	22.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	--	kJ/m²	ISO 179/1eA

Charpy Unnotched Impact Strength	No Break	--		ISO 179/1eU
Notched Izod Impact Strength	4.0	7.0	kJ/m ²	ISO 180/2A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	--	°C	ISO 75-2/A
Melting Temperature	220	--	°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	0.29	--	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	22	14	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.50	6.50		
1 MHz	3.10	3.60		
Dissipation Factor				IEC 60250
100 Hz	0.015	0.15		
1 MHz	0.016	0.050		
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
3.00 mm	HB	--		
6.00 mm	HB	--		
NOTE				
1.	1% Strain			

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