Comco PVDF

Polyvinylidene Fluoride

Comco-Plastic GmbH

Message:

Comco PVDF is a Polyvinylidene Fluoride (PVDF) material. It is available in Europe. Primary attribute of Comco PVDF: Flame Rated.

General Information			
Appearance	Natural Color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.79	g/cm³	ISO 1183
Water Absorption			
Saturation, 23°C	0.050	%	
Equilibrium, 23°C, 50% RH	0.050	%	
Water Absorption			ISO 62
after 24 h immersion in water : 23°C	1.0	mg	
after 96 h immersion in water : 23°C	3.0	mg	
Maximum Service Temperature			
in air continuosly	150	°C	
in air for short periods	160	°C	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	75		ISO 2039-2
Ball Indentation Hardness	110	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2300	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	> 20	%	ISO 527-2
Compressive Stress			ISO 604
2% Strain	32.0	MPa	
1% Strain	17.0	MPa	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	10	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	°C	ISO 75-2/A
Melting Temperature	175	°C	
CLTE - Flow			
23 to 60°C	1.3E-4	cm/cm/°C	
23 to 100°C	1.5E-4	cm/cm/°C	
Thermal Conductivity	0.19	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	18	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	7.40		
1 MHz	6.00		
Dissipation Factor			IEC 60250
100 Hz	0.025		
1 MHz	0.17		
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
3.00 mm	V-0		
6.00 mm	V-0		
Oxygen Index	44	%	ISO 4589-2

Recommended distributors for this material

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