

Generic PTFE

Polytetrafluoroethylene

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic PTFE
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	2.13 to 2.23	g/cm ³	ASTM D792
23°C	2.14 to 2.17	g/cm ³	ISO 1183
Apparent Density			
--	0.39 to 0.50	g/cm ³	ASTM D1895
--	0.40 to 0.85	g/cm ³	ISO 60
Molding Shrinkage			
Flow : 23°C	2.4 to 5.7	%	ASTM D955
23°C	2.7 to 6.7	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.0 to 0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
23°C	58 to 90		ASTM D2240
23°C	56 to 66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	13.5 to 35.2	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	150 to 350	%	
Break, 23°C	150 to 400	%	
Compressive Strength (23°C)	4.70 to 28.6	MPa	ASTM D695
Coefficient of Friction	0.046 to 0.20		ASTM D1894
Deformation Under Load (23°C)	2.95 to 17.4	%	ASTM D621
Films	Nominal Value	Unit	Test Method
Tensile Strength			
MD : Yield	1.38 to 124	MPa	ASTM D882
23°C	33.8 to 38.1	MPa	ISO 527-3
Tensile Elongation			
MD : Break	93 to 500	%	ASTM D882
Break, 23°C	380 to 610	%	ISO 527-3
Elastomers	Nominal Value	Unit	Test Method
Compression Set	4.4 to 30	%	ASTM D395

Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	259 to 260	°C	ASTM D794
Melting Temperature			
--	325 to 344	°C	
--	325 to 342	°C	ASTM D3418
CLTE			
Flow	8.7E-5 to 1.4E-4	cm/cm/°C	ASTM D696
Flow	1.2E-4 to 1.8E-4	cm/cm/°C	ISO 11359-2
Transverse	6.3E-5 to 1.3E-4	cm/cm/°C	ASTM D696
Thermal Conductivity (23°C)	0.25 to 0.69	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	9.8E+17 to 1.0E+18	ohms·cm	IEC 60093
Dielectric Strength (23°C)	19 to 160	kV/mm	ASTM D149
Dielectric Constant (23°C)	2.09 to 2.10		ASTM D150
Dissipation Factor (23°C)	1.0E-4 to 2.4E-4		ASTM D150

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