

Generic PVDF

Polyvinylidene Fluoride

Generic

Message:

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

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.77 to 1.79	g/cm³	ASTM D792
23°C	1.76 to 1.79	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	1.1 to 28	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C)	2.5	%	ASTM D955
Water Absorption			
23°C, 24 hr	0.039 to 0.043	%	ASTM D570
23°C, 24 hr	0.039 to 0.040	%	ISO 62
Equilibrium, 23°C	0.020 to 0.032	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
23°C	67 to 79		ASTM D2240
23°C	68 to 78		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	477 to 2410	MPa	ASTM D638
23°C	2110 to 2520	MPa	ISO 527-2
Tensile Strength			ASTM D638
Yield, 23°C	26.8 to 55.0	MPa	
Break, 23°C	22.0 to 45.0	MPa	
Tensile Elongation			
Yield, 23°C	7.0 to 11	%	ASTM D638
Break, 23°C	10 to 490	%	ASTM D638
Break, 23°C	1.0 to 200	%	ISO 527-2
Flexural Modulus			
23°C	363 to 1860	MPa	ASTM D790
23°C	460 to 7250	MPa	ISO 178
Flexural Strength			
23°C	27.4 to 68.4	MPa	ASTM D790
23°C	67.0 to 90.0	MPa	ISO 178
Compressive Strength (23°C)	36.2 to 86.2	MPa	ASTM D695

Coefficient of Friction	0.24 to 0.30		ASTM D1894
Taber Abrasion Resistance (23°C)	7.50 to 31.4	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	100 to 1000	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	116 to 204	°C	ASTM D794
Glass Transition Temperature	-40.0 to -34.9	°C	ASTM E1356
Vicat Softening Temperature	170 to 172	°C	ISO 306
Melting Temperature			
--	156 to 175	°C	
--	142 to 175	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	127 to 141	°C	ASTM D3418
CLTE - Flow			
--	1.2E-4 to 1.6E-4	cm/cm/°C	ASTM D696
--	1.3E-4 to 1.6E-4	cm/cm/°C	ISO 11359-2
Specific Heat (23°C)	1200	J/kg/°C	ASTM C351
Thermal Conductivity (23°C)	0.17 to 0.20	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14 to 1.1E+15	ohms	ASTM D257
Volume Resistivity (23°C)	0.80 to 2.5E+14	ohms·cm	ASTM D257
Dielectric Strength (23°C)	10 to 300	kV/mm	ASTM D149
Dielectric Constant (23°C)	6.84 to 10.0		ASTM D150
Dissipation Factor (23°C)	0.010 to 0.020		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	42 to 45	%	ASTM D2863
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity	520 to 3160	Pa·s	ASTM D3835

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT