

Solef® 6008

Polyvinylidene Fluoride

Solvay Specialty Polymers

Message:

Solef® 6008 PVDF homopolymer is a low-viscosity PVDF resin and is typically processed by injection molding.

General Information			
Features	Homopolymer		
	Low Viscosity		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75 to 1.80	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/2.16 kg	5.5 to 11	g/10 min	
230°C/5.0 kg	16 to 30	g/10 min	
Molding Shrinkage - Flow	2.0 to 3.0	%	
Water Absorption (23°C, 24 hr)	< 0.040	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec, 2.00 mm)	73 to 80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C, 2.00 mm)	1800 to 2500	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield, 23°C, 2.00 mm	50.0 to 60.0	MPa	
Break, 23°C, 2.00 mm	30.0 to 50.0	MPa	
Tensile Elongation ³			ASTM D638
Yield, 23°C, 2.00 mm	5.0 to 10	%	
Break, 23°C, 2.00 mm	20 to 300	%	
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.15 to 0.35		
vs. Itself - Static	0.20 to 0.40		
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-10 Wheel)	5.00 to 10.0	mg	ASTM D4060
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴ (23°C, 4.00 mm)	40.0 to 120	J/m	ASTM D6110
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-40.0	°C	ASTM D4065
Vicat Softening Temperature	135 to 145	°C	ASTM D1525 ⁵
Melting Temperature	170 to 175	°C	ASTM D3418

Peak Crystallization Temperature (DSC)	134 to 144	°C	ASTM D3418
CLTE - Flow (0 to 40°C)	1.4E-4	cm/cm/°C	ASTM D696
Specific Heat			ASTM E968
23°C	1200	J/kg/°C	
100°C	1600	J/kg/°C	
Thermal Conductivity (23°C)	0.20	W/m/K	ASTM C177
Crystallization Heat	54.0 to 60.0	J/g	ASTM D3417
Heat of Fusion	58.0 to 67.0	J/g	ASTM D3417
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	ASTM D257
Volume Resistivity	> 1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	20 to 25	kV/mm	ASTM D149
Dielectric Constant (23°C, 1 kHz)	7.00 to 10.0		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.200 mm)	V-0		UL 94
Oxygen Index (3.00 mm)	44	%	ASTM D2863
NOTE			
1.	Type IV, 1.0 mm/min		
2.	Type IV, 50 mm/min		
3.	Type IV, 50 mm/min		
4.	2 m/s		
5.	Rate A (50°C/h), Loading 2 (50 N)		

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

