Solef® 1008/0HP1
polyvinylidene fluoride

Solef® 1008 PVDF is a low viscosity homopolymer resin mainly used in injection molding.

General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America
Features	• Homopolymer	• Low Viscosity
Uses	• General Purpose	
Appearance	• White	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.75 to 1.80		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	
Water Absorption (24 hr, 23°C)	< 0.040	%	ASTM D570
Mold Shrinkage - Linear	2.00 to 3.00	%	

Mechanical	Typical Value	Unit	Test method
Tensile Modulus [1, 2] (23°C, 2.00 mm)	1800 to 2500	MPa	ASTM D638
Tensile Strength [3]			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	%	
Taber Abrasion Resistance			ASTM D4060
1000 Cycles, 1000 g, CS-10 Wheel	5.00 to 10.0	mg	
Coefficient of Friction			ASTM D1894
Dynamic	0.15 to 0.35		
Static	0.20 to 0.40		

Impact	Typical Value	Unit	Test method
Charpy Notched Impact Strength - 2 m/s			ASTM D6110
23°C, 4.00 mm	40.0 to 120	J/m	

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Hardness	Typical Value	Unit	Test method
Shore Hardness (Shore D, 1 sec, 2.00 mm)	73 to 80		ASTM D2240

Thermal	Typical Value	Unit	Test method
Glass Transition Temperature	-40.0	°C	ASTM D4065
Vicat Softening Temperature	135 to 145	°C	ASTM D1525 [4]
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
Crystallization Point	137 to 144	°C	ASTM D3418
Heat of Fusion	58.0 to 67.0	J/g	ASTM D3417

Electrical	Typical 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)	20 to 25	kV/mm	ASTM D149
Dielectric Constant (23°C, 1.00 mm, 1 kHz)	7.00 to 10.0		ASTM D150

Flammability	Typical Value	Unit	Test method
Flame Rating (0.100 mm)	V-0		UL 94
Oxygen Index [5] (3.00 mm)	44	%	ASTM D2863

Notes

Typical properties: these are not to be construed as specifications.

[1] Type IV, 1.0 mm/min

[2] Mechanical properties are significantly affected by the sample preparation method.

[3] Type IV, 50 mm/min

[4] Rate A (50°C/h), Loading 2 (50 N)

[5] Sheet

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