

Technical Data Sheet

# Solef<sup>®</sup> 3108/0903

Polyvinylidene Fluoride

Product Description			
Anti-static - Injection			
General			
Processing Method	• Injection Molding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.78 g/cm <sup>3</sup>	1.78 g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR)			ISO 1133
230°C/2.16 kg	1.00 cm <sup>3</sup> /10min	1.00 cm <sup>3</sup> /10min	
230°C/5.0 kg	4.00 cm <sup>3</sup> /10min	4.00 cm <sup>3</sup> /10min	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	421000 psi	2900 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	7980 psi	55.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	3.6 %	3.6 %	ISO 527-2/1A/50
Flexural Modulus <sup>1</sup>	399000 psi	2750 MPa	ISO 178
Flexural Stress <sup>1</sup>			ISO 178
6.0% Strain	12300 psi	85.0 MPa	
3.5% Strain	10400 psi	72.0 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	3.3 ft·lb/in <sup>2</sup>	7.0 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	No Break	No Break	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore D, 3 sec)	81	81	ISO 868
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	280 °F	138 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	185 °F	85.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	340 °F	171 °C	ISO 306/A50
--	297 °F	147 °C	ISO 306/B50
Thermal Conductivity	2.3 Btu·in/hr/ft <sup>2</sup> /°F	0.33 W/m/K	ISO 22007-2
Electrical	Nominal Value (English)	Nominal Value (SI)	
Electrical Resistivity - at 4 pole electrode	< 3.9E+2 ohms·in	< 10 ohms·m	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.6 mm)	V-0	V-0	IEC 60695-11-10,
0.13 in (3.2 mm)	V-0	V-0	-20
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1760 °F	960 °C	
0.12 in (3.0 mm)	1760 °F	960 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1650 °F	900 °C	
0.12 in (3.0 mm)	1650 °F	900 °C	

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### Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

### Notes

<sup>1</sup> 0.079 in/min (2.0 mm/min)

### Notes

These are typical property values not to be construed as specification limits.