

Solef[®] 8808/0902

Polyvinylidene Fluoride

Product Description

Carbon fibres reinforced - Injection

General

Processing Method • Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.77 g/cm ³	1.77 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR)			ISO 1133
230°C/2.16 kg	3.00 cm ³ /10min	3.00 cm ³ /10min	
230°C/5.0 kg	8.00 cm ³ /10min	8.00 cm ³ /10min	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.48E+6 psi	10200 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	10900 psi	75.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.0 %	1.0 %	ISO 527-2/1A/5
Flexural Modulus ¹	1.05E+6 psi	7250 MPa	ISO 178
Flexural Stress ¹			ISO 178
1.8% Strain	13100 psi	90.0 MPa	
2.5% Strain ²	11600 psi	80.0 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.9 ft·lb/in ²	6.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	7.6 ft·lb/in ²	16 kJ/m ²	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore D, 3 sec)	80	80	ISO 868
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	324 °F	162 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	304 °F	151 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	340 °F	171 °C	ISO 306/A50
--	293 °F	145 °C	ISO 306/B50
Thermal Conductivity	2.5 Btu·in/hr/ft ² /°F	0.36 W/m/K	ISO 22007-2
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, -20
0.13 in (3.2 mm)	V-0	V-0	
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	

Additional Information

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

Notes

¹ 0.079 in/min (2.0 mm/min)² Break at 2.5%