

# Solef® 8808/0902

## Polyvinylidene Fluoride

### Product Description

Carbon fibres reinforced - Injection

### General

Material Status	• Commercial: Active
Availability	• Europe
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.77 g/cm <sup>3</sup>	1.77 g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR)			ISO 1133
230°C/2.16 kg	0.183 in <sup>3</sup> /10min	3.00 cm <sup>3</sup> /10min	
230°C/5.0 kg	0.488 in <sup>3</sup> /10min	8.00 cm <sup>3</sup> /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 <sup>1</sup>	1.05E+6 psi	7250 MPa	ISO 178
Flexural Strength <sup>1</sup>			ISO 178
1.8% Strain	13100 psi	90.0 MPa	
2.5% Strain <sup>2</sup>	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 <sup>2</sup>	6.0 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	7.6 ft·lb/in <sup>2</sup>	16 kJ/m <sup>2</sup>	

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 <sup>2</sup> /°F	0.36 W/m/K	ISO 22007-2

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.0630 in (1.60 mm)	V-0	V-0	IEC 60695-11-10, -20
0.126 in (3.20 mm)	V-0	V-0	
Glow Wire Flammability Index			IEC 60695-2-12
0.0591 in (1.50 mm)	1760 °F	960 °C	
0.118 in (3.00 mm)	1760 °F	960 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.0591 in (1.50 mm)	1650 °F	900 °C	
0.118 in (3.00 mm)	1650 °F	900 °C	

### Additional Information

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

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**Notes**

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

<sup>2</sup> Break at 2.5%