Technical Data Sheet

Solef PVDF 8808/0902 BLK(TOL)

Polyvinylidene Fluoride

Product Description
Carbon fibres reinforced - Injection

Processing Method Injection Molding

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate			
(230 °C/2.16 kg)	3.0	cm³/10 min	ISO 1133
(230 °C/5.0 kg)	8.0	cm³/10 min	ISO 1133
Density, (Method A)	1.77	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	1.0	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	7250	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	75.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	10200	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 2.5%)	80.0	MPa	ISO 178
(2.0 mm/min, 1.8%)	90.0	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	6.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	16	kJ/m²	ISO 179
Hardness			
Shore Hardness, (Shore D, 3 sec)	80		ISO 868
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	145	°C	ISO 306
(A (10N), 50 °C/h)	171	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	162	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	151	°C	ISO 75-2/A
Electrical			
Thermal Conductivity	0.36	W/m/K	ISO 22007-2
Flammable			

Glow Wire Flammability Index			
(1.5 mm)	960	°C	IEC 60695-2-12
(3.0 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(1.5 mm)	900	°C	IEC 60695-2-13
(3.0 mm)	900	°C	IEC 60695-2-13
UL Information			
Flame Rating			
(1.6 mm)	V-0		UL 94
(3.2 mm)	V-0		UL 94
Flammability Classification			
(1.6 mm)	V-0		IEC 60695-11-10, -20
(3.2 mm)	V-0		IEC 60695-11-10, -20