

Solvadura™ 10/1001

polyvinylidene fluoride

Solvadura™ 10/1001 is a medium-viscosity PVDF resin mainly for film extrusion applications.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• Homopolymer • Medium Viscosity

Physical	Typical Value Unit	Test method
Density / Specific Gravity	1.75 to 1.80	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	4.0 to 8.0 g/10 min	ASTM D1238
Water Absorption (24 hr, 23°C)	< 0.040 %	ASTM D570

Mechanical	Typical Value Unit	Test method
Tensile Modulus ¹ (23°C, 2.00 mm)	1700 to 2500 MPa	ASTM D638
Tensile Strength ²		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 ²		ASTM D638
Yield, 23°C, 2.00 mm	5.0 to 10 %	
Break, 23°C, 2.00 mm	20 to 300 %	

Thermal	Typical Value Unit	Test method
Peak Melting Temperature	170 to 175 °C	ASTM D3418
Peak Crystallization Temperature (DSC)	137 to 144 °C	ASTM D3418

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, 1.00 mm)	20 to 25 kV/mm	ASTM D149
Dielectric Constant (23°C, 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 (3.00 mm)	44 %	ASTM D2863

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Notes

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

¹ Type IV, 1.0 mm/min

² Type IV, 50 mm/min



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