

# Solef® 42308/0001

## polyvinylidene fluoride

Solef® 42308/0001 PVDF is specifically developed for coextrusion.

### General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> <li>• Africa &amp; Middle East</li> <li>• Asia Pacific</li> <li>• Europe</li> </ul> <ul style="list-style-type: none"> <li>• Latin America</li> <li>• North America</li> </ul>
Processing Method	• Coextrusion

Physical	Typical Value	Unit	Test method
Density	1.78	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/2.16 kg	6.0 to 8.0	g/10 min	
230°C/5.0 kg	18 to 24	g/10 min	
Water Absorption <sup>1</sup> (24 hr, 23°C)	< 0.040	%	ISO 62

Mechanical	Typical Value	Unit	Test method
Tensile Modulus <sup>2</sup> (23°C)	1900	MPa	ASTM D638
Tensile Strength <sup>3</sup>			ASTM D638
Yield, 23°C	48.0	MPa	
Break, 23°C	30.0	MPa	
Tensile Elongation <sup>3</sup> (Yield, 23°C)	7.0	%	ASTM D638
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.31		
vs. Itself - Static	0.32		
Taber Abrasion Resistance			ISO 5470-1
1000 Cycles, 1000 g, CS-10 Wheel	8.00	mg	

Impact	Typical Value	Unit	Test method
Charpy Notched Impact Strength <sup>4</sup> (23°C)	8.5	kJ/m <sup>2</sup>	ASTM D256

Thermal	Typical Value	Unit	Test method
Melting Temperature	169	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	136	°C	ASTM D3418
Crystallization Heat	52.0	J/g	ASTM D3418
Heat of Fusion <sup>5</sup>	53.0	J/g	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

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### Notes

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

<sup>1</sup> Method 1

<sup>2</sup> 1.0 mm/min

<sup>3</sup> 50 mm/min

<sup>4</sup> 4 mm thick, 2 m/s

<sup>5</sup> 80°C to end of melting



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