Solef® 11008/0003
polyvinylidene fluoride

Solef® 11008/0003 PVDF is a low viscosity flexible PVDF copolymer resin and is typically processed by extrusion or injection molding.

General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America
Features	• Copolymer • Good Flexibility	• Low Viscosity
Forms	• Granules	
Processing Method	• Extrusion	

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.75 to 1.80		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.5 to 11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0 to 3.0	%	
Water Absorption (24 hr, 23°C)	< 0.040	%	ASTM D570

Mechanical	Typical Value	Unit	Test method
Tensile Modulus [1] (23°C, 2.00 mm)	800 to 1200	MPa	ASTM D638
Tensile Strength [2]			ASTM D638
Yield, 23°C, 2.00 mm	20.0 to 35.0	MPa	
Break, 23°C, 2.00 mm	20.0 to 40.0	MPa	
Tensile Elongation [2]			ASTM D638
Yield, 23°C, 2.00 mm	10 to 12	%	
Break, 23°C, 2.00 mm	200 to 600	%	
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.15 to 0.35		
vs. Itself - Static	0.20 to 0.40		
Taber Abrasion Resistance			ASTM D4060
1000 Cycles, 1000 g, CS-10 Wheel	5.00 to 15.0	mg	

Impact	Typical Value	Unit	Test method
Charpy Notched Impact Strength [3]			ASTM D6110
23°C, 4.00 mm	100 to 200	J/m	

Hardness	Typical Value	Unit	Test method
Durometer Hardness (Shore D, 1 sec, 2.00 mm)	70 to 75		ASTM D2240

Solef® 11008/0003
polyvinylidene fluoride

Thermal	Typical Value	Unit	Test method
Glass Transition Temperature	-35.0	°C	ASTM D4065
Vicat Softening Temperature	90.0 to 105	°C	ASTM D1525 [4]
Melting Temperature	158 to 162	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	115 to 130	°C	ASTM D3418
CLTE - Flow (0 to 40°C)	1.8E-4	cm/cm/°C	ASTM D696
Specific Heat			ASTM E968
23°C	1200	J/kg/°C	
100°C	1600	J/kg/°C	
Thermal Conductivity (23°C)	0.19	W/m/K	ASTM C177
Crystallization Heat	35.0 to 45.0	J/g	ASTM D3417
Heat of Fusion	35.0 to 45.0	J/g	ASTM D3417

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 MHz)	7.00 to 10.0		ASTM D150
Dissipation Factor (23°C, 1 MHz)	0.20		ASTM D150

Flammability	Typical Value	Unit	Test method
Flame Rating (0.100 mm)	V-0		UL 94
Oxygen Index (3.00 mm)	> 60	%	ASTM D2863

Notes

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

[1] Type IV, 1.0 mm/min

[2] Type IV, 50 mm/min

[3] 2 m/s

[4] Rate A (50°C/h), Loading 2 (50 N)

SYENSQO

www.syensqo.com

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

Neither Syensqo nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this product, related information or its use. Some applications of which Syensqo's products may be proposed to be used are regulated or restricted by applicable laws and regulations or by national or international standards and in some cases by Syensqo's recommendation, including applications of food/feed, water treatment, medical, pharmaceuticals, and personal care. Only products designated as part of the Solviva® family of biomaterials may be considered as candidates for use in implantable medical devices. The user alone must finally determine suitability of any information or products for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. The information and the products are for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right.

All trademarks and registered trademarks are property of the companies that comprise the Syensqo or their respective owners.

© 2026 2023 Syensqo. All rights reserved.