Solef® 60512/0550 and 60512/0150
polyvinylidene fluoride

Solef® 60512/0550 and Solef® 60512/0150 are PVDF grades compounded with PTFE for extrusion of anti-wear tapes.

General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America
Features	• Copolymer	
Uses	• Tape	

Physical	Typical Value	Unit	Test method
Density	1.80 to 1.82	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	2.0 to 4.5	g/10 min	ASTM D1238
Water Absorption (24 hr, 23°C)	< 0.040	%	ISO 62

Mechanical	Typical Value	Unit	Test method
Tensile Modulus [1] (23°C, 1.50 mm)	1100 to 1350	MPa	ASTM D638
Tensile Strength [2]			ASTM D638
Yield, 23°C, 1.50 mm	30.0 to 40.0	MPa	
Break, 23°C, 1.50 mm	30.0 to 40.0	MPa	
Tensile Elongation [2]			ASTM D638
Yield, 23°C, 1.50 mm	8.0 to 12	%	
Break, 23°C, 1.50 mm	50 to 300	%	
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.10 to 0.20		
vs. Itself - Static	0.050 to 0.20		
Taber Abrasion Resistance			ASTM D4060
1000 Cycles, 1000 g, CS-10 Wheel	5.00 to 10.0	mg	

Thermal	Typical Value	Unit	Test method
Melting Temperature	170 to 174	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	144 to 148	°C	ASTM D3418
Crystallization Heat	38.0 to 48.0	J/g	ASTM D3417
Heat of Fusion - (80°C to end of melting)	41.0 to 50.0	J/g	ASTM D3417

Notes

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

[1] Type V, 1.0 mm/min

[2] Type V, 50 mm/min

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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.

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