

SCHULAFORM® AF 9

Acetal (POM) Copolymer

A. Schulman Europe

Message:

Aramid fibre filled POM-Compound with improved abrasion resistance

General Information			
Filler / Reinforcement	Aramid Fiber		
Features	Good Abrasion Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792, ISO 1183/A
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	4.50	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/10)	132	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	3250	MPa	ASTM D638
--	2900	MPa	ISO 527-2/1A/1
Tensile Stress			
Yield	55.0	MPa	ISO 527-2/1A/50
Break	56.0	MPa	ASTM D638
--	56.0	MPa	ASTM D638
Tensile Strain			
Yield	8.5	%	ISO 527-2/1A/50
Break	12	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Notched Izod Impact (3.20 mm)	61	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	156	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	100	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	163	°C	ISO 306/A50
--	147	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093

Volume Resistivity	> 1.0E+13	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	34	mm/min	ISO 3795
Flammability Classification			IEC 60695-11-10, -20
1.50 mm	HB		
3.00 mm	HB		
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	625	°C	
3.00 mm	625	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	650	°C	
3.00 mm	650	°C	

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