Product Comparison



Technical Data		

Product Description							
Schulaform AF9 NAT	Aramid fibre filled POM-Compound with improved abrasion resistance						
	This data represents typical values that have been calculated from all products classified as: Generic Acetal (POM) Copolymer - Aramid Fiber						
Th	This information is provided for comparative purposes only.						
General	Schulaforn AF9 NAT	1	Generic Acetal (POM)	Generic Acetal (POM) Copolymer - Aramid Fiber			
Manufacturer / Supplier	 Lyondell 	Basell Industries	Generic				
Generic Symbol	 Acetal (F 	POM) Copolymer	 Acetal (PON 	1) Copolymer			
Material Status	Comme	cial: Active	Commercial	: Active			
Literature ¹	Technica	al Datasheet					
Search for UL Yellow Card	 Lyondell 	Basell Industries					
Availability	Asia PacificEuropeNorth America		Asia PacificEuropeLatin Americ	 Africa & Middle East Asia Pacific Europe Latin America North America 			
Filler / Reinforcement	Aramid I	Aramid Fibe	Aramid Fiber				
Features	Abrasior	n Resistant					
Processing Method	• Injection Molding						
Physical		Schulaform AF9 NAT	Generic Acetal (POM) Copolymer - Aramid Fiber	Unit	Test Method		
Density / Specific Gravity							
			1.41 to 1.51	g/cm³	ASTM D792		
			1.40 to 1.46	g/cm³	ISO 1183		
		1.41		g/cm³	ISO 1183/A		
Melt Volume-Flow Rate (MVR) (190	°C/2.16 kg)	4.5		cm³/10min	ISO 1133		
Molding Shrinkage							
Flow			1.1 to 2.0	%	ASTM D955		
			1.8	%	ISO 294-4		
Mechanical		Schulaform AF9 NAT	Generic Acetal (POM) Copolymer - Aramid Fiber	Unit	Test Method		
Tensile Modulus							
			2760 to 4000	MPa	ASTM D638		
			2680 to 2910	MPa	ISO 527-1		
		2900		MPa	ISO 527-1/1A/1		
Tensile Stress							
Yield		55.0		MPa	ISO 527-2/1A/5		
			46.9 to 68.9	MPa	ASTM D638		

(UL)

Form No. TDS-130502-118005-en



www.ulprospector.com

				www.uiprospector
Mechanical	Schulaform AF9 NAT	Generic Acetal (POM) Copolymer - Aramid Fiber	Unit	Test Method
Tensile Elongation				
Yield		6.5 to 10	%	ASTM D638
Yield	10		%	ISO 527-2/1A/50
Break	12		%	ASTM D638
Break		4.0 to 14	%	ISO 527-2
Flexural Modulus		2590 to 3590	MPa	ASTM D790
Flexural Strength		68.3 to 96.5	MPa	ASTM D790
Coefficient of Friction		0.13 to 0.23		ASTM D1894
Impact	Schulaform AF9 NAT	Generic Acetal (POM) Copolymer - Aramid Fiber	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1A
-30°C	3.0		kJ/m²	
23°C	5.0		kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1U
-30°C	40		kJ/m²	
23°C	45		kJ/m²	
Notched Izod Impact				
		58 to 75	J/m	ASTM D256
3.20 mm	61		J/m	ASTM D256A
Unnotched Izod Impact		370 to 590	J/m	ASTM D4812
Hardness	Schulaform AF9 NAT	Generic Acetal (POM) Copolymer - Aramid Fiber	Unit	Test Method
Ball Indentation Hardness (H 132/10)	132		MPa	ISO 2039-1
Thermal	Schulaform AF9 NAT	Generic Acetal (POM) Copolymer - Aramid Fiber	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	156		°C	ISO 75-2/Bf
1.8 MPa, Unannealed		101 to 108	°C	ASTM D648
1.8 MPa, Unannealed		80.0 to 160	°C	ISO 75-2/A
1.8 MPa, Unannealed	100		°C	ISO 75-2/Af
Vicat Softening Temperature				
	147		°C	ISO 306/B50
	163		°C	ISO 306/A50
Electrical	Schulaform AF9 NAT	Generic Acetal (POM) Copolymer - Aramid Fiber	Unit	Test Method
Surface Resistivity	> 1.0E+15		ohms	IEC 60093
Volume Resistivity	> 1.0E+13		ohms·m	IEC 62631-3-1
Comparative Tracking Index	600		V	IEC 60112

2 of 3



Flammability	Schulaform AF9 NAT	Generic Acetal (POM) Copolymer - Aramid Fiber	Unit	Test Method
Burning Rate				
2.00 mm	40		mm/min	ISO 3795
2.00 mm	40		mm/min	FMVSS 302
Flammability Classification				IEC 60695-11-10
1.5 mm	НВ			-20
3.0 mm	НВ			
Glow Wire Flammability Index				IEC 60695-2-12
1.5 mm	625		°C	
3.0 mm	625		°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.5 mm	650		°C	
3.0 mm	650		°C	
Injection	Schulaform AF9 NAT	Generic Acetal (POM) Copolymer - Aramid Fiber	Unit	
Drying Temperature	100	80 to 121	°C	
Drying Time	2.0 to 4.0	2.0 to 4.0	hr	
Suggested Max Moisture	0.040 to 0.10	0.15	%	
Processing (Melt) Temp	190 to 220	200 to 208	°C	
Mold Temperature	60 to 120	93 to 95	°C	
Injection Notes				

Acetal (POM) Copolymer -Aramid Fiber

This information is provided for comparative purposes only.

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

Form No. TDS-130502-118005-en

² Typical properties: these are not to be construed as specifications.