

Generic Acetal (POM) Copolymer - Aramid Fiber

Acetal (POM) Copolymer

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Aramid fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.40 - 1.52	g/cm ³	ASTM D792
23°C	1.40 - 1.46	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	1.1 - 3.0	%	ASTM D955
23°C	1.5 - 1.8	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	2760 - 4190	MPa	ASTM D638
23°C	2200 - 3510	MPa	ISO 527-2
Tensile Stress			
Fracture, 23°C	39.0 - 60.9	MPa	ISO 527-2
23°C	52.3 - 62.1	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	6.4 - 10	%	ASTM D638
Yield, 23°C	2.9 - 8.8	%	ISO 527-2
Fracture, 23°C	4.0 - 14	%	ISO 527-2
Flexural Modulus			
23°C	2600 - 3590	MPa	ASTM D790
23°C	2000 - 3130	MPa	ISO 178
Flexural Strength			
23°C	68.5 - 97.1	MPa	ASTM D790
23°C	60.0 - 75.0	MPa	ISO 178
Coefficient of Friction	0.055 - 0.23		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.5 - 8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	25 - 50	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	58 - 80	J/m	ASTM D256
23°C	5.0 - 8.0	kJ/m ²	ISO 180

Unnotched Izod Impact (23°C)	370 - 590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	120 - 149	°C	ASTM D648
1.8 MPa, not annealed	84.0 - 135	°C	ISO 75-2/A
Injection	Nominal Value	Unit	
Drying Temperature	75.0 - 121	°C	
Drying Time	1.9 - 5.0	hr	
Rear Temperature	182 - 194	°C	
Middle Temperature	193 - 199	°C	
Front Temperature	190 - 216	°C	
Processing (Melt) Temp	200 - 208	°C	
Mold Temperature	93.0 - 100	°C	
Injection Pressure	86.0 - 86.2	MPa	
Injection instructions			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

