

# Smoothblend® POM-1201

Acetal (POM) Homopolymer

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

Message:

Smoothblend® POM-1201 is a wear resistance polyacetal compound offering superb lubricity and high mechanical and thermal properties by incorporating PTFE and glass fiber. It is developed for applications demanding stringent wear resistant and low friction performance.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	PTFE Lubricant (10%)		
Features	Good Chemical Resistance		
	Good Thermal Stability		
	Good Wear Resistance		
	Lubricated		
Uses	Automotive Applications		
	Bushings		
	Engineering Parts		
	Gears		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.70 to 1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	80.0	MPa	ASTM D638
Tensile Elongation (Break)	8.0	%	ASTM D638
Flexural Modulus	4080	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.45		
vs. Steel - Static	0.40		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	65	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 4.00 mm)	145	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	180 to 185	°C
Middle Temperature	185 to 190	°C
Front Temperature	190 to 200	°C
Nozzle Temperature	200 to 210	°C
Processing (Melt) Temp	185 to 215	°C
Mold Temperature	80.0 to 105	°C

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#### Recommended distributors for this material

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