

# Smoothblend® PC-1301

Polycarbonate

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

## Message:

Smoothblend® PC-1301 is a wear resistance apolycarbonate compound offering superb lubricity by incorporating PTFE and carbon fiber. It is developed for applications demanding stringent wear resistant and low friction performance.

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Chemical Resistance		
	Good Thermal Stability		
	Good Wear Resistance		
	Low Friction		
	Lubricated		
Uses	Automotive Applications		
	Bushings		
	Engineering Parts		
	Gears		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	95.0	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	6370	MPa	ASTM D790
Flexural Strength	109	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.42		
vs. Steel - Static	0.18		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 4.00 mm)	123	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	4.0 to 6.0	hr
Rear Temperature	275 to 280	°C
Middle Temperature	280 to 285	°C
Front Temperature	285 to 290	°C
Nozzle Temperature	290 to 295	°C
Processing (Melt) Temp	275 to 300	°C
Mold Temperature	85.0 to 110	°C

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#### Recommended distributors for this material

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