

# DynaMix™ 1900-CG40

Polyamide 6

Polymer Dynamix

Message:

40% Glass and Carbon Fiber Filled PA6

Features:

Excellent Chemical Resistance

Heat Stabilized and Lubricated

Conductive

Applications:

Automotive

Gears and Bearings

Industrial

General Information			
Filler / Reinforcement	Glass\Carbon Fiber,40% Filler by Weight		
Additive	Heat Stabilizer		
	Lubricant		
Features	Conductive		
	Good Chemical Resistance		
	Heat Stabilized		
	Lubricated		
Uses	Automotive Applications		
	Bearings		
	Gears		
	Industrial Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	190	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	12800	MPa	ASTM D790
Flexural Strength	252	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	140	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	ASTM D257
Volume Resistivity	1.0E+3 to 1.0E+7	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	

Drying Temperature	82.2	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	243 to 254	°C
Middle Temperature	252 to 266	°C
Front Temperature	260 to 279	°C
Nozzle Temperature	260 to 279	°C
Processing (Melt) Temp	260 to 279	°C
Mold Temperature	65.6 to 93.3	°C
Injection Rate	Moderate-Fast	
Screw Speed	40 to 70	rpm
Clamp Tonnage	5.5 to 8.3	kN/cm <sup>2</sup>

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#### Recommended distributors for this material

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