

EnCom GPTF30 PPE-PA

Polyamide + PPE

EnCom, Inc.

Message:

30% Glass+PTFE Filled PPE/PA Alloy

General Information			
Filler / Reinforcement	Glass\PTFE,30% Filler by Weight		
Uses	Automotive Applications		
	Pump Parts		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	146	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	8100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	252	°C	
1.8 MPa, Unannealed	239	°C	
Injection	Nominal Value	Unit	
Drying Temperature	93.3 to 107	°C	
Drying Time	2.0 to 4.0	hr	
Drying Time, Maximum	7.0	hr	
Suggested Max Moisture	5.0E-4	%	
Suggested Shot Size	40 to 75	%	
Rear Temperature	260 to 299	°C	
Middle Temperature	266 to 299	°C	
Front Temperature	271 to 299	°C	
Nozzle Temperature	277 to 299	°C	
Processing (Melt) Temp	277 to 299	°C	

Mold Temperature	65.6 to 121	°C
Back Pressure	0.172 to 0.689	MPa
Screw Speed	20 to 100	rpm
Vent Depth	0.038 to 0.076	mm

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