

ASTATAL™ FG2010

Acetal (POM) Copolymer
Marplex Australia Pty. Ltd.

Message:

ASTATAL™ FG2010 is a 10% chemically coupled glass fibre filled (GF) Polyoxymethylene (POM or Polyacetal) copolymer designed for use in automotive fuel component mouldings.
Note: The letters "U" or "W" indicate additional UV stabilisation [ie:ASTATAL™ FG2010U].

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Chemically Coupled		
	Copolymer		
Uses	Automotive Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.4	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	89.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	6.0	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	4000	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	160	°C	
1.8 MPa, Unannealed, 6.40 mm	158	°C	
Melting Temperature	165	°C	DSC
CLTE - Flow	3.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (0.800 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	165 to 185	°C	

Middle Temperature	175 to 195	°C
Front Temperature	185 to 205	°C
Processing (Melt) Temp	190 to 210	°C
Mold Temperature	50.0 to 90.0	°C
Injection Pressure	60.0 to 130	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.100 to 0.500	MPa
Screw Speed	40 to 60	rpm
Clamp Tonnage	3.0 to 5.0	kN/cm ²

NOTE

- | | |
|----|------------|
| 1. | 5.0 mm/min |
| 2. | 5.0 mm/min |
| 3. | 2.8 mm/min |
| 4. | 2.8 mm/min |

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