

ASTAMID™ MB3EG5

Polyamide 6
Marplex Australia Pty. Ltd.

Message:

ASTAMID™ MB3EG5 is a 25% glass reinforced, heat stabilised Polyamide 6 (PA 6 or Nylon 6).
Note: The letters "U", "W" or "UV" indicate UV stabilisation has been added [ie: ASTAMID™ MA3EG8U].

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Water Absorption (Equilibrium, 23°C, 50% RH)	2.3	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	8000	MPa	ASTM D638
Tensile Strength ² (3.20 mm)	155	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	7500	MPa	ASTM D790
Flexural Strength ⁵ (3.20 mm)	215	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	210	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	75.0 - 85.0	°C	
Drying Time	2.0	hr	
Rear Temperature	255 - 265	°C	
Middle Temperature	265 - 275	°C	
Front Temperature	265 - 275	°C	
Processing (Melt) Temp	250 - 270	°C	
Mold Temperature	50.0 - 80.0	°C	
Injection Pressure	60.0 - 130	MPa	
Injection Rate	Fast		
Back Pressure	0.100 - 0.500	MPa	
Screw Speed	40 - 60	rpm	
Clamp Tonnage	3.0 - 5.0	kN/cm ²	
Injection instructions			
Drying Time (Opened Bag): > 12 hr			

NOTE	
1.	5.0 mm/min
2.	5.0 mm/min
3.	5.0 mm/min
4.	1.3 mm/min
5.	1.3 mm/min

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Recommended distributors for this material

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