

ASTAMID™ MA3EG7

Polyamide 66
Marplex Australia Pty. Ltd.

Message:

ASTAMID™ MA3EG7 is a 35% glass reinforced and heat stabilised grade of Polyamide 66 (PA 66) designed for automotive and general industrial applications requiring high strength, rigidity, chemical resistance, heat resistance and long term durability.
Note: The letters "UV" or "W" indicate UV stabilisation has been added [ie: ASTAMID:™ MA3EG7UV].

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight
Additive	heat stabilizer
Features	Rigidity, high
	High strength
	Good chemical resistance
	Durability
	Thermal Stability
Uses	Industrial application
	Application in Automobile Field

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.41	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50	--	%	ASTM D955
Water Absorption (24 hr)	1.6	--	%	ASTM D570
Moisture Regain ¹	5.0	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	120	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength ² (3.20 mm)	210	150	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	3.0	5.0	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	10000	8500	MPa	ASTM D790
Flexural Strength ⁵ (3.20 mm)	300	240	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (3.20 mm)	140	180	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	250	--	°C	ASTM D648
CLTE - Flow	2.0E-5	--	cm/cm/°C	ASTM D696
Flammability	Dry	Conditioned		Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	75.0 - 85.0		°C	
Drying Time	2.0		hr	
Rear Temperature	270 - 290		°C	
Middle Temperature	280 - 295		°C	
Front Temperature	290 - 300		°C	
Processing (Melt) Temp	260 - 285		°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.	65% RH			
2.	5.0 mm/min			
3.	5.0 mm/min			
4.	1.3 mm/min			
5.	1.3 mm/min			

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