

ASTAMID™ MN-3020X7

Polyamide 12
Marplex Australia Pty. Ltd.

Message:

ASTAMID™ MN-3020X7 is a heat and UV stabilized Polyamide 12 based compound used for termite resistant jackets for communication cables. The hard surface of the Nylon 12 resists attack from termites in areas where they may be a problem. This material conforms to the requirements of the AS1049 standard.

General Information			
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Heat Stabilized		
Uses	Cable Jacketing		
	Wire & Cable Applications		
Agency Ratings	AS 1049-2003		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.70	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	45.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	200	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1500	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	59.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵	4.0	kJ/m ²	ISO 179
Notched Izod Impact (3.20 mm)	65	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	92.0	°C	
1.8 MPa, Unannealed, 3.20 mm	47.0	°C	
CLTE - Flow	1.3E-4	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Extrusion	Nominal Value	Unit	

Drying Temperature	75.0 to 85.0	°C
Drying Time	> 2.0	hr
Cylinder Zone 1 Temp.	170 to 180	°C
Cylinder Zone 2 Temp.	180 to 185	°C
Cylinder Zone 3 Temp.	185 to 190	°C
Cylinder Zone 4 Temp.	190 to 195	°C
Melt Temperature	170 to 180	°C
Die Temperature	160 to 220	°C

NOTE

- | | |
|----|------------|
| 1. | 50 mm/min |
| 2. | 5.0 mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |
| 5. | 4 mm |

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