

ASTALOY™ PC/ABS M150-G

Polycarbonate + ABS
Marplex Australia Pty. Ltd.

Message:

ASTALOY™ PC/ABS M150G is an ultra high heat resistance and high impact strength alloy of ABS and Polycarbonate and is designed for moulding applications requiring excellent impact toughness, product rigidity, ultra high heat resistance whilst maintaining mouldability. Typical applications include domestic/industrial switchgear.
Note: The letters "U" or "W" indicate UV stabilisation has been added [ie: ASTALOY™ PC/ABS M150GU].

General Information			
Features	Good Moldability		
	High Heat Resistance		
	Medium Rigidity		
	Ultra High Impact Resistance		
Uses	Industrial Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/3.8 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	58.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	130	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2450	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	90.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	600	J/m	ASTM D256
Gardner Impact (3.20 mm)	70.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.20 mm	112	°C	
1.8 MPa, Unannealed, 6.40 mm	117	°C	
1.8 MPa, Unannealed, 12.7 mm	125	°C	
Vicat Softening Temperature	142	°C	ASTM D1525 ⁵
CLTE - Flow	6.9E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature (3.20 mm)	750	°C	AS/NZS 60695.2.12

Injection	Nominal Value	Unit
Drying Temperature	95.0 to 100	°C
Drying Time	3.0 to 5.0	hr
Rear Temperature	245 to 265	°C
Middle Temperature	255 to 275	°C
Front Temperature	265 to 285	°C
Processing (Melt) Temp	260 to 290	°C
Mold Temperature	50.0 to 90.0	°C
Injection Pressure	60.0 to 140	MPa
Injection Rate	Moderate	
Back Pressure	0.100 to 0.500	MPa
Screw Speed	40 to 60	rpm
Clamp Tonnage	4.0 to 8.0	kN/cm ²

NOTE

- | | |
|----|------------------|
| 1. | 5.0 mm/min |
| 2. | 5.0 mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |
| 5. | Loading 1 (10 N) |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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