

ASTALOY™ PC/ABS MC300

Polycarbonate + ABS
Marplex Australia Pty. Ltd.

Message:

ASTALOY™ PC/ABS MC300 is a general purpose alloy of ABS and Polycarbonate and is designed for injection moulding applications requiring a balance of high impact toughness, product rigidity, high heat resistance and mouldability. Typical applications in the automotive area include coloured interior doorhandles as well as instrument panel structural components and panels.
Note: The letters "U" or "W" indicate UV stabilisation has been added [ie: ASTALOY™ PC/ABS MC300U].

General Information			
Features	General Purpose		
	Good Moldability		
	High Heat Resistance		
	High Impact Resistance		
	Medium Rigidity		
Uses	Automotive Applications		
	Automotive Instrument Panel		
	General Purpose		
	Handles		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/3.8 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	48.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2450	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	77.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	380	J/m	ASTM D256
Gardner Impact (3.20 mm)	35.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.20 mm	90.0	°C	
1.8 MPa, Unannealed, 6.40 mm	95.0	°C	

1.8 MPa, Unannealed, 12.7 mm	102	°C	
Vicat Softening Temperature	122	°C	ASTM D1525 ⁵
CLTE - Flow	7.6E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature (1.60 mm)	650	°C	AS/NZS 60695
Injection	Nominal Value	Unit	
Drying Temperature	95.0 to 100	°C	
Drying Time	3.0 to 5.0	hr	
Rear Temperature	225 to 245	°C	
Middle Temperature	235 to 255	°C	
Front Temperature	245 to 265	°C	
Processing (Melt) Temp	240 to 270	°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)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

