

ASTALAC™ ABS M22

Acrylonitrile Butadiene Styrene

Marplex Australia Pty. Ltd.

Message:

ASTALAC™ ABS M22 is a high impact strength grade of ABS and is designed for injection moulding applications requiring excellent toughness and abuse resistance whilst maintaining a balance of product rigidity, heat resistance and mouldability. Typical applications include telecommunications and appliance housings.

Note: The letters "UV" or "W" indicate UV stabilisation has been added [ie: ASTALAC™ ABS M22UV].

General Information			
Features	Good Moldability		
	Good Toughness		
	High Impact Resistance		
	Medium Heat Resistance		
	Medium Rigidity		
Uses	Appliances		
	Housings		
	Telecommunications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 kg	19	g/10 min	
230°C/3.8 kg	5.0	g/10 min	
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)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	41.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	40	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2200	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	68.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	350	J/m	ASTM D256
Gardner Impact (3.20 mm)	30.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.20 mm	76.0	°C	

1.8 MPa, Unannealed, 6.40 mm	81.0	°C	
1.8 MPa, Unannealed, 12.7 mm	87.0	°C	
Vicat Softening Temperature	104	°C	ASTM D1525 ⁵
CLTE - Flow	9.0E-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)	550	°C	AS/NZS 60695.2.12
Injection	Nominal Value	Unit	
Drying Temperature	85.0 to 90.0	°C	
Drying Time	3.0 to 6.0	hr	
Rear Temperature	205 to 225	°C	
Middle Temperature	215 to 235	°C	
Front Temperature	225 to 245	°C	
Processing (Melt) Temp	220 to 250	°C	
Mold Temperature	40.0 to 70.0	°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	3.0 to 6.0	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

