

ASTALAC™ ABS M112LG

Acrylonitrile Butadiene Styrene

Marplex Australia Pty. Ltd.

Message:

ASTALAC™ ABS M112LG is an ultra high heat resistance low gloss grade of ABS and is designed for injection moulding applications requiring a balance of reduced gloss, high heat resistance, impact toughness, product rigidity and mouldability. Typical applications in the automotive area include interior heater air vents and barrels, rear seat upper mouldings and T-Bar surround assemblies.

Note: The letters "UV" or "W" indicate UV stabilisation has been added [ie: ASTALAC™ ABS M112LGW].

General Information			
Features	Good Impact Resistance		
	Good Moldability		
	High Heat Resistance		
	Low Gloss		
	Medium Rigidity		
Uses	Automotive Applications		
	Automotive Interior Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	2.0	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)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	46.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2350	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	75.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.20 mm	87.0	°C	
1.8 MPa, Unannealed, 6.40 mm	94.0	°C	
1.8 MPa, Unannealed, 12.7 mm	101	°C	
Vicat Softening Temperature	119	°C	ASTM D1525 ⁵

CLTE - Flow	8.5E-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	90.0 to 95.0	°C	
Drying Time	3.0 to 6.0	hr	
Rear Temperature	215 to 235	°C	
Middle Temperature	225 to 245	°C	
Front Temperature	235 to 255	°C	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	30.0 to 60.0	°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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