

ASTALAC™ ABS LG150

Acrylonitrile Butadiene Styrene

Marplex Australia Pty. Ltd.

Message:

ASTALAC™ ABS LG150 is a medium/high heat resistance low gloss grade of ABS and is designed for injection moulding applications requiring a balance of reduced gloss, heat resistance, impact toughness, product rigidity and mouldability. Typical automotive applications include steering column surrounds, glovebox lids and inners, rear seatback tray assemblies as well as T-Bar surround console mouldings.

Note: The letters "UV" or "W" indicate UV stabilisation has been added [ie: ASTALAC™ ABS LG150W].

General Information			
Features	Good Impact Resistance		
	Good Moldability		
	Low Gloss		
	Medium Heat Resistance		
	Medium Rigidity		
Uses	Automotive Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.0	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)	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	35.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2200	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	64.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	250	J/m	ASTM D256
Gardner Impact (3.20 mm)	25.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.20 mm	79.0	°C	
1.8 MPa, Unannealed, 6.40 mm	86.0	°C	
1.8 MPa, Unannealed, 12.7 mm	91.0	°C	
Vicat Softening Temperature	107	°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	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	30.0 to 80.0	°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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