ASTALAC™ ABS MGP22

Acrylonitrile Butadiene Styrene

Marplex Australia Pty. Ltd.

Message:

ASTALAC™ ABS MGP22 is a high melt flow and high impact strength grade of ABS which 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 automotive grilles and appliques, telecommunications housings and appliance cases.

Note: The letters "UV" included as a suffix indicates UV stabilisation has been added [ie: ASTALAC™ ABS MGP22UV].

General Information				
Features	Good Moldability			
	Good Stiffness			
	Good Toughness			
	High Flow			
	High Impact Resistance			
	Medium Heat Resistance			
Uses	Appliances			
	Automotive Applications			
	Housings			
Processing Method	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.04	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR)			ASTM D1238	
220°C/10.0 kg	24	g/10 min		
230°C/3.8 kg	6.0	g/10 min		
Molding Shrinkage - Flow (3.00 mm)	0.60	%	ASTM D955	
Water Absorption (24 hr)	0.12	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	100		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength ¹ (3.20 mm)	39.0	MPa	ASTM D638	
Tensile Elongation ² (Break, 3.20 mm)	40	%	ASTM D638	
Flexural Modulus ³ (3.20 mm)	2050	MPa	ASTM D790	
Flexural Strength ⁴ (3.20 mm)	63.0	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (3.20 mm)	300	J/m	ASTM D256	
Gardner Impact (3.20 mm)	40.0	J	ASTM D3029	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load			ASTM D648	

1.8 MPa, Unannealed, 3.20 mm	75.0	°C	
1.8 MPa, Unannealed, 6.40 mm	80.0	°C	
1.8 MPa, Unannealed, 12.7 mm	87.0	°C	
Vicat Softening Temperature	104	°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)	НВ		UL 94
Glow Wire Ignition Temperature (1.60 mm)	550	°C	AS/NZS 60695
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/cm²	
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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