

Ghaed ABS ABS-GH-500

Acrylonitrile Butadiene Styrene

Ghaed Basir Petrochemicals Co.

Message:

Classification: Special grade/ultra high heat resistance

Characteristic: Ultra Heat Resistance& No odor

Application: Automobile parts and Electronic parts and etc.

General Information			
Features	High Heat Resistance		
	Low to No Odor		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
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)	4.0 to 10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100 to 120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 23°C)	> 44.1	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C)	> 20	%	ASTM D638
Flexural Modulus ³ (23°C)	> 1960	MPa	ASTM D790
Flexural Strength ⁴ (23°C)	> 66.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁵	> 14	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 107	°C	ASTM D648
Vicat Softening Temperature	> 120	°C	ASTM D1525 ⁶
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	< 0.10	%	
Rear Temperature	200 to 210	°C	

Middle Temperature	210 to 220	°C
Front Temperature	220 to 230	°C
Nozzle Temperature	220 to 240	°C
Processing (Melt) Temp	250	°C
Mold Temperature	60.0 to 70.0	°C
Injection Rate	Slow-Moderate	

NOTE

1.	50 mm/min
2.	50 mm/min
3.	2.8 mm/min
4.	2.8 mm/min
5.	6.4mm
6.	Rate A (50°C/h), Loading 2 (50 N)

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