

Ghaed ABS ABS-90s

Acrylonitrile Butadiene Styrene
Ghaed Basir Petrochemicals Co.

Message:

Classification: General purpose
Characteristic: Super High Impact Resistance
Application: Automobile parts(radiator grill & etc.),Helmets,Toys,Suitcase,Profiles Released extruded product ,Bobbin sleeve, Boats, pipe, bath tubs & etc

General Information			
Features	General Purpose		
	High Impact Resistance		
Uses	Automotive Applications		
	Bathroom Accessories		
	Electrical Parts		
	Luggage		
	Marine Applications		
	Piping		
	Profiles		
	Safety Helmets		
	Toys		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.0 to 12	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)	90 to 105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 23°C)	> 36.3	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C)	> 25	%	ASTM D638
Flexural Modulus ³ (23°C)	> 1470	MPa	ASTM D790
Flexural Strength ⁴ (23°C)	> 52.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁵	> 35	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 80.0	°C	ASTM D648
Vicat Softening Temperature	> 90.0	°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 85.0	°C
Drying Time	3.0	hr
Suggested Max Moisture	< 0.10	%
Rear Temperature	190 to 200	°C
Middle Temperature	200 to 220	°C
Front Temperature	210 to 220	°C
Nozzle Temperature	215 to 225	°C
Processing (Melt) Temp	230	°C
Mold Temperature	60.0 to 80.0	°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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