Ghaed ABS ABS-60

Acrylonitrile Butadiene Styrene

Ghaed Basir Petrochemicals Co.

Message:

Classification: General grade.
Characteristic: General plating , strong solvent paint.
Application: Electronic and Electrical parts, Automobile parts, Refrigerator knobs,Motorcycle parts, house appliances, Cosmetic case

General Information			
Features	General Purpose Platable Solvent Resistant		
Uses	Appliance Components Automotive Applications Cosmetic Packaging Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10 to 20	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)	> 43.1	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)	> 63.7	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength [5]	> 23	kJ/m²	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 85.0	°C	ASTM D648
Vicat Softening Temperature	> 96.0	°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 95.0	°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)

Recommended distributors for this material

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