

# Color-in™ ABS-TM

Acrylonitrile Butadiene Styrene  
Shanghai KumhoSunny Plastics Co., Ltd.

## Message:

ABS-TM is injection a molding aesthetic resin.ABS-TM has many properties:(1)anti-scratch(2)high gloss(G60°>90)(3)high flow(4)recycling.ABS-TM is mainly used in appearance items of household appliance,etc.

General Information			
Features	High Flow		
	High Gloss		
	Pleasing Surface Appearance		
	Recyclable Material		
	Scratch Resistant		
Uses	Appliances		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Pencil Hardness - 500g	HB		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	45.0	MPa	ASTM D638
Flexural Modulus	2100	MPa	ASTM D790
Flexural Strength	55.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	80.0	°C	ASTM D648
Vicat Softening Temperature	92.0	°C	ASTM D1525 <sup>1</sup>
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Optical	Nominal Value		Test Method


Gardner Gloss	> 90	ASTM D523
Injection	Nominal Value	Unit
Drying Temperature	80.0 to 85.0	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	190 to 210	°C
Middle Temperature	210 to 220	°C
Front Temperature	225 to 235	°C
Nozzle Temperature	225 to 230	°C
Processing (Melt) Temp	220 to 235	°C
Mold Temperature	60.0 to 80.0	°C
Back Pressure	1.00 to 5.00	MPa
Screw Speed	30 to 50	rpm
NOTE		
1.	Rate B (120°C/h)	

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Recommended distributors for this material

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