

## Technical Data Sheet

# BM530

## ABS

### PRODUCT DESCRIPTION:

ABS BM530 is a heat resistant ABS resin for blow molding, offering high rigidity and high toughness. Application: automobile rear spoiler, car seat, side step, etc.

### FEATURES:

- High rigidity
- High toughness

### APPLICATION:

- Automobile rear spoiler
- Car seat

Properties	Standard	Condition	Unit	Typical Value
<b>Physical</b>				
Density	ISO 1183	23°C	g/cm <sup>3</sup>	1.04
Mold Shrinkage	ISO 294	23°C, 48hr	%	0.4-0.7
<b>Mechanical</b>				
Tensile Strength	ISO 527	50mm/min	MPa	44
Flexural Strength	ISO 178	2mm/min	MPa	64
Flexural Modulus	ISO 178	2mm/min	MPa	2200
Notched Charpy Impact	ISO 179	4J, 23°C	kJ/m <sup>2</sup>	18
Notched Charpy Impact	ISO 179	4J, -30°C	kJ/m <sup>2</sup>	11
Rockwell Hardness	ISO 2039	R-scale	—	102
<b>Thermal</b>				
Heat Deflection Temperature	ISO 75	120°C/hr, 0.45MPa	°C	95
Heat Deflection Temperature	ISO 75	120°C/hr, 1.80MPa	°C	82
Vicat Softening Temperature	ISO 306	50°C/hr, 5kg	°C	101
<b>Other Properties</b>				
Flammability	UL 94	3 mm	mm/min	≤50

Processing Parameters		Value	Unit
<b>Pre-treatment</b>			
Drying Temperature		80 ~ 95	°C
Drying Time		3 ~ 4	hour
Maximum Moisture Content		≤0.05	%
<b>General Guidelines</b>			
Barrel Temperature	Rear	180 ~ 200	°C
	Middle	180 ~ 210	°C
	Front	190 ~ 230	°C
Nozzle		180 ~ 220	°C
Melt Temperature		200 ~ 230	°C
Mold Temperature		30 ~ 50	°C

**Note :**

1. Values are measured at 23°C and in RH of 50% on injection molded specimens.
2. Typical values for uncolored products, not specifications, and may vary slightly with different colors.
3. Flexural strength is tested with fixed deflection.
4. HDT: specimens are unannealed.
5. The general guidelines are only for reference. Exact settings have to follow the product and machine conditions.

**Disclaimer :**

To the extent the user is entitled to disclose and distribute this document, the user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the data compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials, or process described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. You may not copy this document to a web site.

Kumho-Sunny expressly disclaim liability for any loss, damage, or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no endorsement of any product or process, and we expressly disclaim any contrary implication.