



## Material Datasheet 3

**Trade Name : ABS Grey**

**Material : Acrylonitrile Butadiene Styrene (ABS)**

**Grade : ABS GY 12**



Properties	Test Method	Test Condition	Unit	Typical Value
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### Physical

Specific Gravity	ASTM D792	23°C/23°C	g/cm <sup>3</sup>	1.06
Mold Shrinkage	ASTM D995	3.2mm	%	0.4

### Rheological

Melt Flow Index	ASTM D1238	220°C - 10kg	g/10min	16 - 22
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### Mechanical

Tensile Strength	ASTM D638	23°C	kg/cm <sup>2</sup>	250 - 350
Rockwell Hardness	ASTM D785	23°C	R-Scale	R-110
Flexural Strength	ASTM D790	23°C	kg/cm <sup>2</sup>	550 - 650
Flexural Modulus	ASTM D790	23°C	kg/cm <sup>2</sup>	16000 - 20000
Izod Impact	ASTM D256	V-notched, 1/8"	kg.cm/cm	12 - 14

### Thermal

Heat Distortion Temp.	ASTM D648	Unannealed	°C	84 - 85
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### Flammability

Flammability	UL 94			HB
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### Recommended Injection Molding Parameters

Barrel Temperature	Value	Mold Temperature	Value
Zone 1	180 - 200°C	Fixed Half	40 - 60°C
Zone 2	200 - 220°C	Moving Half	40 - 60°C
Zone 3	200 - 220°C	Drying Hour	3 - 4
Zone 4	210 - 230°C	Drying Temperature	80 - 90°C
Nozzle	190 - 210°C	Melt Temperature	190 - 240°C

The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. For further information, please contact or fax to Zinco Colours Technical Services Department.



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## Raw Materials



## Finished Products

### Motorcycle Parts

