

## Clariant ABS4500 ABS, High Impact

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Impact Grade, Molded

### Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-ABS4500-ABS-High-Impact.php](http://www.lookpolymers.com/polymer_Clariant-ABS4500-ABS-High-Impact.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	62.1 MPa	9000 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	ASTM D790
Izod Impact, Notched	0.908 J/cm @Temperature 22.8 °C	1.70 ft-lb/in @Temperature 73.0 °F	ASTM D256
	2.67 J/cm @Temperature 22.8 °C	5.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	204 - 232 °C	400 - 450 °F	
Middle Barrel Temperature	210 - 238 °C	410 - 460 °F	
Front Barrel Temperature	216 - 243 °C	420 - 470 °F	

<b>Nozzle Temperature Processing Properties</b>	<b>218 - 246 °C Metric</b>	<b>425 - 475 °F English</b>	<b>Comments</b>
Melt Temperature	204 - 246 °C	400 - 475 °F	
Dry Time	2 - 4 hour @Temperature 71.1 °C	2 - 4 hour @Temperature 160 °F	to eliminate splay and appearance defects
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.345 - 2.07 MPa	50.0 - 300 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	25 - 100 rpm	25 - 100 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

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