

# Clariant ABS ABS5400

Acrylonitrile Butadiene Styrene

Clariant Corporation

## Message:

Clariant ABS ABS5400 is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America and is processed by injection molding.

The main features of Clariant ABS ABS5400 are:

- high gloss
- Good dimensional stability
- Good UV resistance
- Impact resistance
- chemical resistance

General Information			
UL YellowCard	E103015-218175		
Features	Good dimensional stability		
	Highlight		
	Impact resistance, high		
	Good UV resistance		
	Good chemical resistance		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.60	%	ASTM D955
Water Absorption (24 hr)	0.35	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	106		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Fracture	45.5	MPa	ASTM D638
--	45.5	MPa	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	103	°C	ASTM D648
1.8 MPa, not annealed	90.6	°C	ASTM D648
CLTE - Flow	8.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Additional Information			
Notched Izod Impact, ASTM D256, Colors: 3.5 ft-lb/inNotched Izod Impact, ASTM D256, Black: 3.2 ft-lb/in			
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	204 - 249	°C	
Middle Temperature	204 - 249	°C	
Front Temperature	204 - 249	°C	
Processing (Melt) Temp	204 - 246	°C	
Melt Temperature (Aim)	227	°C	
Mold Temperature	23.9 - 79.4	°C	
Injection Rate	Fast		
Back Pressure	0.345 - 2.07	MPa	
Screw Speed	20 - 100	rpm	
Cushion	3.18 - 6.35	mm	
Injection instructions			

The minimum injection pressure to achieve 95% fill of the part during the boost injection pressure phase should be used. The hold pressure should be between 30% and 75% of the initial injection pressure.

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#### Recommended distributors for this material

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