

# Absolac 700

Acrylonitrile Butadiene Styrene (ABS)

## TECHNICAL DATASHEET

### DESCRIPTION

Absolac® 700 is a very high gloss grade

### FEATURES

- Very High Gloss

### APPLICATIONS

- Stationery goods
- Pens
- Toys
- Novelty Items
- Washing Machines

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Flow Rate, 220 °C/10 kg	ISO 1133	g/10 min	>25
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 1/4" bar, 0.010" Notch Radius, 23 °C (73 °F)			> 13
Tensile Stress at Yield, 23 °C	ISO 527	MPa	48
Tensile Modulus (MD)	ISO 527	MPa	2600
Flexural Strength, 23 °C	ISO 178	MPa	70
Flexural Modulus, 23 °C	ISO 178	MPa	2400
Hardness, Rockwell	ISO 2039-2	R scale	105
<b>Thermal Properties</b>			
Vicat Softening Temperature, B/2 (120 °C/h, 50N)	ASTM D 1525	°C	97
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	93
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	97
Coefficient of Linear Thermal Expansion	ISO 11359	10 <sup>-6</sup> /°C	70 to 100
<b>Optical Properties</b>			
Specular Gloss, 60 °	ASTM D 523	%	+98
<b>Other Properties</b>			

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Property, Test Condition	Standard	Unit	Values
Density	ISO 1183	kg/m <sup>3</sup>	1040
<b>Processing</b>			
Linear Mold Shrinkage	ISO 294-4	%	0.3 to 0.5

Typical values for uncolored products

## SUPPLY FORM

Absolac is delivered in the form of cylindrical pellets. Standard Packaging unit: 25 kg with HDPE laminate paper bag with HMHDPE liner . In dry areas with normal temperature control, Absolac can be stored for relatively long periods of time without any change in mechanical properties. With unstable colors, however, storage over a number of years can give rise to some change in color. Under poor storage conditions, Absolac absorbs moisture, but this can be removed by drying.

## PRODUCT SAFETY

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures should not be substantially exceeded. Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.

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