

Absolac® 100SP Acrylonitrile Butadiene Styrene (ABS)

DESCRIPTION

Absolac® 100 SP is medium flow with very high impact resistance suitable for injection molding application.

FEATURES

- Very High Impact strength
- Paint ability
- Good Mechanical strength

APPLICATIONS

- Spool
- Irrigation fittings

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt flow index 220 °C/10 kg	ISO 1133	gms / 10 min	10
Mould Shrinkage	D 955	%	0.4 – 0.6
Mechanical Properties			
Rockwell Hardness	ISO 2039/2	R-Scale	95
Tensile Strength at yield (50 mm /min)	D 638	Kg/cm ²	450
Tensile Modulus (50 mm /min)	D 638	Kg/cm ²	22500
Flexural strength (5mm/min)	D 790	Kg/cm ²	700
Flexural modulus (5mm / min)	D 790	Kg/cm ²	24450
Izod notched impact strength (at 1/4" thickness)	D 256	Kg cm/cm	36
Izod notched impact strength (at 1/8" thickness)	D256	Kg cm/cm	50
Thermal Properties			
Vicat Softening Temperature	D 1525	°C	101
Heat Deflection Temperature (annealed 80 °C/ 4Hrs , 0.45 MPa)	D 648	°C	98
Other Properties			
Specific gravity	D 792	-	1.04

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Processing			
Melt Temp Range		°C	220 - 250
Mold Temp Range		°C	60 - 80
Drying Temperature		°C	80
Drying Time		Hr.	2 - 4

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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