



KALPLAC ABS 101B
UNFILLED ABS COMPOUND

Technical Data Sheet

KALPLAC ABS 101B is an unfilled / plain Acrylonitrile-butadiene-styrene (ABS) polymer, developed for appliances segment. This terpolymer is made through melt blend reactive compounding in twin screw extruder. The pre-colored versions are made by homogenous dispersion of multi-pigment mix while ABS is being produced. KALPLAC ABS is chemically and dimensionally stable with good combination of toughness and rigidity. This is offered in Natural and other pre-coloured versions.

CATEGORY

- Unfilled / plain ABS Compound with medium impact

COMPOUNDING

- Carefully chosen grades of relevant raw materials melt blended homogeneously in twin screw compounding system for reactive compounding
- Reactants along with suitable pigment mix are introduced at appropriate compounding stages controlled by state-of-the-art loss-in-weight feeders,
- The polymer is protected by special additives for maintaining properties and to resist colour changes during further process

APPLICATION

- KALPLAC ABS 101B is used directly for injection molding of the base component in Automotive , Appliance and other useful components

ADVANTAGES

- Balanced rigidity & toughness
- Excellent thermal, chemical & dimensional stability
- Stored under proper conditions, very low moisture absorption

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TECHNICAL SPECIFICATION

Properties	Test method	Unit	Typical value
Physical Properties			
Melt Flow Index @ 220° C/ 10 kg	ASTM D-1238	gm / 10min	30 ± 2
Specific Gravity	ASTM D-792	-	1.05 ± 0.02
Thermal Properties			
Heat Deflection Temperature (1.8 Mpa / 6.4 mm)	ASTM D-648	°C	95 ± 2
Flammability			
Flammability @ 3.2mm thickness	DPIL Std based on UL-94	-	HB
Glow Wire Index	IEC-60695-2-12	°C	N/A
Mechanical Properties			
Notched Izod impact strength	ASTM D-256	Kg.cm/cm	20 ± 2
Tensile Strength at yield	ASTM D-638	Kg/cm ²	450 ± 20
Flexural strength	ASTM D-790	Kg/cm ²	650 ± 50
Flexural Modulus	ASTM D-790	Kg/cm ²	25000 ± 1000

IM PROCESS PARAMETERS

Pre-Drying		
Temperature	°C	85 - 90
Time	Hours	2 - 3
Process Temperatures		
(Guide lines only; Customer to optimize as per component requirements)		
Feed	°C	85 - 95
Zone-1	°C	195 – 200
Zone-2	°C	205– 210
Zone-3	°C	210 – 215
Nozzle	°C	220 - 225
Mould	°C	85 - 90

Storage : The material shall be kept in a cool and dry place.

Form : Pellets

Package : 25 kg bags

DISCLAIMER:

The above Technical Data Sheet presents information and data, true and accurate to the best of our knowledge. No warranty expressed or implied can be made regarding performance or otherwise.

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