KALPLAC ABS 104G

UNFILLED ABS COMPOUND

Technical Data Sheet

KALPLAC ABS 104G is an unfilled / plain high impact 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 polymer with high 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 104G is used directly for injection molding of the base component in Automotive , Appliance and other useful components

ADVANTAGES

- High rigidity, good weldability, and insulating properties
- Good impact resistance, even at low temperatures
- Good abrasion and strain resistance
- High dimensional stability (Mechanically strong and stable over time)
- High surface gloss and brightness

TECHNICAL SPECIFICATION

Properties	Test method	Unit	Typical value
Physical Properties			
Melt Flow Index @ 220^0 C / 10 kg	ASTM D-1238	gm / 10min	20 ± 2
Specific Gravity	ASTM D-792	-	1.04 ± 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	26 ± 2
Tensile Strength at yield	ASTM D-638	Kg/cm²	500 ± 30
Flexural strength	ASTM D-790	Kg/cm²	700± 50
Flexural Modulus	ASTM D-790	Kg/cm²	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

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