



## Kimfill 4216

### Filled Polypropylene Compound

#### Product Description

Kimfill 4216 is a 17% mineral filled polypropylene compound. It has good properties such as stiffness, strength, hardness, dimensional stability, thermal and creep resistance, and reduced shrinkage. Kimfill 4216 has good scratch and UV resistance that designed for outdoor applications.

#### General

Material Status	• Commercial: Active
Availability	• Middle East, Europe, Asia
Additive	• 17% Filler by Weight , Heat Stabilizer
Features	• Good Stiffness • Good Scratch Resistance • Good Process Ability
Uses	• Automotive • Electronic, Electrical Appliance • Household and Industrial Parts
Appearance & Form	• Black , Pellet
Packaging	• 25 Kg Multi-Layer Bag, 1000 kg Jumbo Bag
Processing Method	• Injection Molding

#### Nominal Value Unit

#### Test Method

#### Physical

Density	1.03±0.01g/cm <sup>3</sup>	ISO 1183
Melt Flow Index (230°C, 2.16kg)	10±2 g/10min	ISO 1133
Filler Content	17±1 %	ISO 3451-1

#### Mechanical

Tensile Modulus (1mm/min)	1750 MPa	ISO 527
Tensile Strength (50mm/min)	22±1 MPa	ISO 527
Tensile Strain (Break)	≥ 50%	ISO 527
Charpy Unnotched Impact Strength (23°C)	NB	ISO 179
Charpy notched Impact Strength (23°C)	≥ 16 KJ/m <sup>2</sup>	ISO 179

#### Processing Conditions

As a guide the following temperature profile and other condition is recommended

Zone 1	Zone 2	Zone 3	Zone 4	Die	Drying Time	Drying Temperature
180-185°C	180-190°C	190-195°C	190-200°C	195-200°C	1-2 hr.	80-90 °C

#### Shelf Life & Storage

Shelf life at proper storage is at least 18 months from production date, but in case of a long storage time, potential moisture pick-up needs to be eliminated by drying before injection. Sacks should be stored in dry/closed condition and protect from sunlight.

#### Note

This documentation is made out based on our tests and experiments in our R&D center with piled up experience and knowledge. And the values are measured on injection molded test specimens. It is suggested that this information contained in this document can be used for general indication. Therefore, you should not construe it as product specifications, and you should do appropriate test before you considering your conditions for newly applications.

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