



Kimia Javid Sepahan

Kimfill 4321

Polypropylene Reinforced Compound

Product Description

Kimfill 4321 is a Random copolymer polypropylene reinforced compound with chopped glass fiber. It has good properties such as surface hardness, tensile strength and abrasion resistance, dimension stability and exhibits superior heat resistance as well as high surface quality. Kimfill 4321 can use in make electric/electronic appliance, automobile and mechanical industries etc.

General

Material Status	• Commercial: Active
Availability	• Middle East, Europe, Asia
Additive	• 20% Filler by Weight (Glass Fiber), Heat Stabilizer
Features	• Good Stiffness • Good Heat Stability • Good Process Ability
Uses	• Piping
Appearance	• Natural
Forms	• Pellets
Packaging	• 25 Kg PE Bag
Processing Method	• Extrusion

Physical	Nominal Value Unit	Test Method
Density	1.03g/cm ³	ISO 1183
Melt Flow Index (230°C, 2.16kg)	0.28±0.02 g/10min	ISO 1133
Filler Content	20±1 %	ISO 3451-1

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	4200 MPa	ISO 527
Tensile Strength (5mm/min)	≥ 52 MPa	ISO 527
Tensile Strain (Break)	≥ 10 %	ISO 527
Charpy Unnotched Impact Strength (23°C)	≥ 80 Kj/m ²	ISO 179
Charpy notched Impact Strength (23°C)	≥ 18 Kj/m ²	ISO 179

Injection

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

Zone 1	Zone 2	Zone 3	Zone 4	Die
190-210°C	200-215°C	215-225°C	220-230°C	225-235°C
Drying Temperature		Drying Time		
80-90 °C		1-2 hr.		

Storage

Sacks should be stored in dry/closed condition and protect from sunlight.

Shelf Life

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.