



Kimalloy 3090

Polypropylene Compound

Product Description

Kimalloy 3090 is an alloy based on Polypropylene and EPDM. Easy of process and appropriate stiffness with high impact strength make Kimalloy 3090 suitable for variety of applications specially in automotive industries, appliances and etc. This alloy contains UV stabilizer that makes it suitable for outdoor applications.

Applications:

Automotive parts, Bumper

General

Material Status	• Commercial: Active		
Availability	• Middle East, Asia		
Additive	• Anti UV		
Features	• Good process ability		
Uses	• Automotive parts	• Bumper	
Color	• Black		
Forms	• Pellets		
Packaging	• 25 kg PE bag	• 1 ton jumbo bag	

Physical	Nominal Value	Unit	Test Method
Melt Flow Index (230°C, 2.16kg)	10.5 ± 1	g/10min	ISO 1133
Specific gravity	0.92 ± 0.02	-	ISO 1183

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	> 600	MPa	ISO 527
Tensile Strain (yield)	> 6	%	ISO 527
Tensile Strength (yield)	19 ± 2	MPa	ISO 527
Tensile Strain (Break)	> 200	%	ISO 527
Tensile Strength (Break)	16 ± 2	MPa	ISO 527
Impact Strength (Charpy unnotched at 23°C)	N.B	kJ/m ²	ISO 179
Impact Strength (Charpy notched at 23°C)	> 45	kJ/m ²	ISO 179
Hardness (5kg)	55 ± 3	Shore D	ISO 868

Injection

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

Zone 1	Zone 2	Zone 3	Zone 4	Die	Mold Temperature
180-190°C	190-200°C	200-210°C	200-210°C	210-220°C	50-70°C
Drying Temperature				Drying Time	
70-80 °C				1-2 hr.	

Storage & Shelf Life

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

Shelf life at proper storage is at least 24 months from production date, but in case of a long storage time, potential moisture pick-up needs to be eliminated by drying before injection.

Note

- Test results have been achieved in lab condition. Miss handling may give different result and sometimes outside of the standard
- The specifications given are the guidelines only.
- Above compound is suitable to run on different machines; however some adjustments may be required on individual machine.
- The customers are advised to check the quality, prior to commercial use. There is no guarantee and/or warrantee what so ever, after processing

Issue Date: Nov. 2019

Issue Number: 01

R&D Department