



Kimalloy 3054

Polypropylene Compound

Product Description

Kimalloy 3054 is a block copolymer polypropylene blended with a special elastomer. The material is distinguished by easy processability and combines very good stiffness with good impact strength. This grade has some additives make it resistant against degradation during processing. Kimalloy 3054 has variety of applications specially in automotive industries, appliances and etc.

Applications:

Automotive parts, Bumper

General

| | |
|-----------------|----------------------------------|
| Material Status | • Commercial: Active |
| Availability | • Middle East, Asia |
| Additive | • Anti-Oxidant |
| Features | • Good process ability |
| Uses | • Automotive parts |
| 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) | 7.5 ± 1.5 | g/10min | ISO 1133 |
| Specific gravity | 0.96 ± 0.02 | - | ISO 1183 |
| Ash Content (600°C) | < 10 | % | ISO 3451 |

| Mechanical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|-------------|
| Tensile Modulus | > 600 | MPa | ISO 527 |
| Tensile Strain (yield) | > 6 | % | ISO 527 |
| Tensile Strength (yield) | 20 ± 2 | MPa | ISO 527 |
| Tensile Strain (Break) | > 50 | % | ISO 527 |
| Charpy unnotched Impact Strength at 23°C | N.B | kJ/m ² | ISO 179 |
| Charpy notched Impact Strength at 23°C | > 10 | 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

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