



Kimalloy 3003

Polypropylene Compound for Steel Pipe Coating

Product Description

Kimalloy 3003 is used for 3LPP coating system in natural colored. It is supplied in pellets for melt extrusion. Kimalloy 3003 is a high molecular weight, high compatibility with PP adhesive, good melt flow rate and excellent physical and chemical properties polypropylene block copolymer and is recommended for steel pipe coating in the application of oil and gas transportation systems and high pressure water pipeline system.

The Kimalloy 3003 application/uses:

- PP Steel Pipe Coating System

General

Material Status	• Commercial: Active
Availability	• Middle East, Europe
Features	• Clean /High Purity • Good properties • Excellent Process ability
Uses	• Coating System
Appearance	• Natural - White
Forms	• Pellets
Packaging	• 25 sacks
Processing Method	• Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.90 ± 0.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (230°C/2.16 kg)	0.8 – 1.1	g/10 min	ISO 1133
Water content	<0.1	%	ISO 15512

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength Stress (Break) min.	28	MPa	ISO 527
Tensile Strain (Break) min.	400	%	ISO 527
Impact (Charpy) min.	60	kJ/m ²	ISO 179
Hardness min.	60	Shore D	ASTM D2240

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature min.	140	°C	ISO 306/A50

Extrusion

As a guide the following temperature profile is recommended: 170°C 190°C 210°C 220°C 230°C

Storage & Shelf life

Sacks should be stored in dry/closed condition at temperature below 50 °C and protected from UV /direct sunlight. Shelf life at proper storage is at least 18 month from production date, but in case of a long storage time potential moisture pick-up needs to be eliminated by drying before extrusion. Under these conditions the product can be hold at least 24 months.

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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