



Kimcross 1540

Anhydride Modified Polyethylene

Product Description

Kimcross1540 is polyethylene grafted with maleic anhydride, it is generally adhesive for metal with polyethylene, and this grade is designed for multi- layer pipes (PE/PEX-AL-PE/PEX). Kimcross 1540 keeps the properties of polyethylene such as good resistance to chemical solvents, weather resistance, mechanical performance and processing.

General

Features	• Clean/High Purity	• Good Adhesion	• Excellent Process ability
Uses	• Coating Applications		
Appearance	• Natural		
Forms	• Pellets		
Packaging	• 25 sacks		
Processing Method	• Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	2.0 ±0.5	g/10 min	ISO 1133
Oxidation Induction Time (210°C)	>30	min	ISO 11357
Water content	< 0.1	%	ISO 15512

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	> 16.0	MPa	ISO 527
Tensile Stress (Yield)	>12	MPa	ISO 527
Tensile Strain (Break)	> 600	%	ISO 527

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	105	°C	ISO 306/A50

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	48		ISO 868

Extrusion

As a guide the following temperature profile is recommended:

Zone 1	Zone 2	Zone 3	Zone 4	Head	Die	Melt Temp
150	160	175	185	195	195	200-210

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.

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