

# Polycoat

## Steel Pipe Coating Grade

### Applications

Polycoat is a high density polyethylene compound containing alpha olefin polymer and contains finely dispersed carbon black that ensures excellent weathering properties. Polycoat engineered compound is recommended as a top coat for a three layer PE system used in Steel Pipe Coating for higher service temperature that provides the material with good melt strength and extrudability, as well as superior mechanical properties at low and high temperatures and very good ESCR; with a design temperature range of +90°C to -30 °C

### Physical Properties

Item	Typical Value	Unit	Test Method
Melt Flow Index (190°C/2.16kg)	--	g/10min	ISO 1133
Melt Flow Index (190°C/5kg)	0.86	g/10min	ISO 1133
Carbon Black Content	2	% wt.	ISO 6964
Carbon Black Dispersion	Good	--	ASTM D 5596
Tc (DSC)	114.57	°C	ISO 3146
Heat Of Fusion (DSC)	173.97	J/gr	ISO 3146
Oxidative Induction Time (OIT)	>40	min	ASTM D 3895
Elongation at break @ 23±2°C	650	%	ISO 527
Yield strength @ 23±2°C	22	MPa	ISO 527
ESCR	3000	hour	ASTM D 1693

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## ❖ General

### Polycoat

- Recyclable
- suitable for severe installation conditions especially at elevated ambient temperaturesExcellent Processability
- Very good Carbon black dispersion
- High processing speeds
- Processing temperature range 190-230 C

## ❖ Packaging

Polycoat is supplied in regular pellet form packed in 25kg bags. It should be stored in a dry place