



ELITE™ 5940ST (Pipe Coating) Enhanced Polyethylene Resin

Overview

ELITE™ 5940 ST Polyethylene Resin is a copolymer produced via INSITE™ Technology from Dow. It offers a unique combination of excellent stiffness/toughness balance, good tear strength, ESCR and an outstanding processability, allowing for the production of a variety of extruded articles at high output rates.

Main Characteristics:

- Excellent stiffness/toughness balance
- Excellent processability and melt strength

Applications:

- Metal pipe coating
- Pipe applications

Complies with:

- EU, No 10/2011

Consult the regulation for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density ¹	0.941 g/cm ³	0.941 g/cm ³	ISO 1183
Melt Index (190°C/2.16 kg)	0.80 g/10 min	0.80 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			ISO 527-2
Yield	2810 psi	19.4 MPa	
Break	4060 psi	28.0 MPa	
Tensile Strain (Break)	> 500 %	> 500 %	ISO 527-2
Stress Crack Resistance - 10% Igepal (122°F (50°C))	> 3000 hr	> 3000 hr	ASTM D1693
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore D, Compression Molded	56	56	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Oxidation Induction Time - (Isotherm, 190°C)	> 18 min	> 18 min	ASTM D3895

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Unannealed density, measure on melt-index strand, annealed for 30minutes at 23°C and 50% humidity. Measured by immersion method (Archimedes)

