



E41003

HIGH DENSITY POLYETHYLENE FOR PIPE Extrusion

Relene E 41003 is a High Density Polyethylene grade with broad molecular weight distribution; good melt strength, suitable for making pipes & other general purpose ducting applications. This grade meets the MFI and Density requirements of Material as per IS:4984:1995 on “High Density Polyethylene pipe for water supply-specification”. When incorporated with adequate quantity of carbon black as specified in clause 5.2.3 of IS : 4984:1995, will meet the requirements of the designation PE-EW-A45-T012 mentioned in the clause 5.2 of IS:4984:1995.

Typical Characteristics*			
Property	Unit	Test Method	Typical Value
Density (23°C)	gm/cc	ASTM D 1505	0.946
MFI (190°C / 5 kg)	gm/10 min	ASTM D 1238	<1.1
Tensile Strength at Yield	MPa	ASTM D 638	20
Ultimate Tensile Strength	MPa	ASTM D 638	24
Elongation at Break	%	ASTM D 638	500

* Typical values with compression moulded specimens, not to be taken as specification

Regulatory Information

Meets the requirement stipulated in standard IS: 10146-1982 on “Specification for Polyethylene for safe use in contact with foodstuffs, pharmaceuticals, and drinking water”. It also conforms to the positive list of constituents as prescribed in IS: 10141-1982. The grade and the additives incorporated in it also comply with the FDA: CFR Title 21, 177.1520, Olefin Polymers. The level of antioxidant in E41003 is not more than 0.3% by mass of the resin.

Storage Recommendations

Bags should be stored in dry conditions at temperatures below 50°C and protected from UV / direct sunlight