

## Reliance Industries Relene F46003 Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

### Material Notes:

Relene F46003 is a High Density Polyethylene grade suitable for producing blown parts with superior stiffness and barrier properties. It is recommended for making liners and coextruded film structures. Information provided by Reliance Industries

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Reliance-Industries-Relene-F46003-Polyethylene.php](http://www.lookpolymers.com/polymer_Reliance-Industries-Relene-F46003-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.946 g/cc	0.0342 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	0.30 g/10 min @Load 2.16 kg	0.30 g/10 min @Load 4.76 lb	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	26.5 MPa	3840 psi	ASTM D882
Film Tensile Strength at Yield, TD	29.5 MPa	4280 psi	ASTM D882
Film Elongation at Break, MD	750 %	750 %	ASTM D882
Film Elongation at Break, TD	950 %	950 %	ASTM D882
Elmendorf Tear Strength, MD	0.800 g/micron	20.3 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	13.0 g/micron	330 g/mil	ASTM D1922
Dart Drop	2.00 g/micron	50.8 g/mil	38mm Dart, 66mm height; ASTM D1709
Film Tensile Strength at Break, MD	55.0 MPa	7980 psi	ASTM D882
Film Tensile Strength at Break, TD	50.0 MPa	7250 psi	ASTM D882

## Contact Songhan Plastic Technology Co.,Ltd.

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