

Reliance Industries Relene E52009 Polyethylene

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

Material Notes:

Relene E52009 is a High Density Polyethylene grade with low gel content, excellent orientation characteristics and negligible water carry-over. This grade is recommended for making raffia tapes and monofilaments with an excellent balance of high tenacity and good elongation. Information provided by Reliance Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Reliance-Industries-Relene-E52009-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D1505
Melt Flow	0.85 g/10 min @Load 2.16 kg	0.85 g/10 min @Load 4.76 lb	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	34.5 MPa	5000 psi	ASTM D882
Film Tensile Strength at Yield, TD	37.5 MPa	5440 psi	ASTM D882
Film Elongation at Break, MD	900 %	900 %	ASTM D882
Film Elongation at Break, TD	950 %	950 %	ASTM D882
Elmendorf Tear Strength, MD	0.600 g/micron	15.2 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	1.70 g/micron	43.2 g/mil	ASTM D1922
Dart Drop	1.50 g/micron	38.1 g/mil	38mm Dart, 66mm height; ASTM D1709
Film Tensile Strength at Break, MD	50.0 MPa	7250 psi	ASTM D882
Film Tensile Strength at Break, TD	45.0 MPa	6530 psi	ASTM D882

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