

Dow Elite® 5400 Linear Low Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Film Grade

Material Notes:

ELITE® 5400 enhanced polyethylene resin is a copolymer produced via INSITE® technology from Dow Plastics. It offers extremely high impact resistance, combined with excellent tear, tensile, and optical properties for high strength blown film applications. In addition, ELITE 5400 resin offers a unique combination of low temperature seal initiation, higher modulus, and low blocking tendencies for automated packaging applications. It complies with U.S. FDA regulation 21 CFR 177.1520 c 3.2 (a) when used unmodified and processed according to good manufacturing practices. For food contact compliance statements, your nearest Dow office should be contacted. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Elite-5400-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.916 g/cc	0.0331 lb/in ³	
Melt Flow	1.0 g/10 min @Load 2.16 kg	1.0 g/10 min @Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.3 MPa	1640 psi	
Film Tensile Strength at Yield, TD	11.2 MPa	1620 psi	
Film Elongation at Break, MD	635 %	635 %	
Film Elongation at Break, TD	662 %	662 %	
Secant Modulus, MD	0.171 GPa	24.8 ksi	Film value
Secant Modulus, TD	0.1825 GPa	26.47 ksi	Film value
Elmendorf Tear Strength MD	630 g	630 g	Unspecified film thickness
Elmendorf Tear Strength TD	770 g	770 g	Unspecified film thickness
Dart Drop Test	>= 830 g	>= 1.83 lb	
Film Tensile Strength at Break, MD	53.9 MPa	7820 psi	
Film Tensile Strength at Break, TD	51.7 MPa	7500 psi	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	102 °C	216 °F	

Optical Properties	Metric	English	Comments
Haze	9.5 %	9.5 %	

Processing Properties	Metric	English	Comments
Processing Temperature	90.0 °C	194 °F	Seal Initiation temperature

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