

Dow ELITE™ 5400G Enhanced Polyethylene Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

ELITE™ 5400G is a copolymer produced via INSITE™ Technology from Dow Plastics. It offers a unique combination of low seal initiation, moderate stiffness and low blocking tendencies for good performance on automated packaging equipment. ELLITE™ 5400G resin complies with U.S. FDA regulation 21 CFR 177.1520 (c) 3.2a. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-ELITE-5400G-Enhanced-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.916 g/cc	0.0331 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	1.0 g/10 min	1.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.818 MPa	1424 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.17 MPa	1475 psi	ASTM D882
Film Elongation at Break, MD	609 %	609 %	ASTM D882
Film Elongation at Break, TD	671 %	671 %	ASTM D882
Secant Modulus, MD	0.1658 GPa	24.05 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.1912 GPa	27.73 ksi	2% Secant; ASTM D882
Impact	27	27	[lb_f]; Puncture Resistance Force; Dow Method
	334	334	[ft-lbf/in³]; Puncture Resistance; Dow Method
Puncture Energy	11.9 J	8.75 ft-lb	Dow Method
Elmendorf Tear Strength MD	825 g	825 g	ASTM D1922
Elmendorf Tear Strength TD	1014 g	1014 g	ASTM D1922
Elmendorf Tear Strength, MD	16.24 g/micron	412.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	20.0 g/micron	507 g/mil	ASTM D1922
Dart Drop Test	>= 850 g	>= 1.87 lb	Method B; ASTM D1709
Film Tensile Strength at Break, MD	56.85 MPa	8246 psi	ASTM D882

Film Tensile Strength at Break, TD Mechanical Properties	52.84 MPa Metric	7664 psi English	ASTM D882 Comments
Heat Seal Strength Initiation Temperature	99.0 °C	210 °F	2 lb/in heat seal strength; 0.5 sec dwell, 40 psi bar pressure, pull speed 10 (in./min.); Dow Method

Thermal Properties	Metric	English	Comments
Melting Point	123 °C	253 °F	Dow Method (DSC)
Vicat Softening Point	101 °C	214 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	9.0 %	9.0 %	ASTM D1003
Gloss	70 %	70 %	45°; ASTM D2457

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