

Dow ELITE™ 5110G Enhanced Polyethylene Resin

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

Material Notes:

ELITE™ 5110G is a copolymer produced via INSITE™ Technology from Dow Plastics. It offers a unique combination of high modulus and excellent impact strength, allowing for down gauging in bag applications. ELLITE™ 5110G resin complies with U.S. FDA regulation 21 CFR 177.1520 (c) 3.2a when used unmodified and processed according to good manufacturing practices. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-ELITE-5110G-Enhanced-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.9255 g/cc	0.03344 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	0.85 g/10 min	0.85 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	13.89 MPa	2015 psi	ASTM D882
Film Tensile Strength at Yield, TD	14.58 MPa	2115 psi	ASTM D882
Film Elongation at Break, MD	597 %	597 %	ASTM D882
Film Elongation at Break, TD	660 %	660 %	ASTM D882
Secant Modulus, MD	0.2769 GPa	40.16 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.3303 GPa	47.91 ksi	2% Secant; ASTM D882
Impact	21.8	21.8	[lb_f]; Puncture Resistance Force; Dow Method
Puncture Energy	6.91 J	5.10 ft-lb	Dow Method
Elmendorf Tear Strength MD	564 g	564 g	ASTM D1922
Elmendorf Tear Strength TD	1110 g	1110 g	ASTM D1922
Elmendorf Tear Strength, MD	11.1 g/micron	282 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	21.9 g/micron	555 g/mil	ASTM D1922
Dart Drop Test	409 g	0.902 lb	Method B; ASTM D1709
Film Tensile Strength at Break, MD	57.50 MPa	8339 psi	ASTM D882
Film Tensile Strength at Break, TD	51.95 MPa	7534 psi	ASTM D882
			2 lb/in heat seal strength; 0.5 sec

Heat Seal Strength Initiation Temperature	120 °C Metric	248 °F English	Comments dwell, 40 psi bar pressure, pull speed 10 (in./min.); Dow Method
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Thermal Properties	Metric	English	Comments
Melting Point	123 °C	253 °F	Dow Method (DSC)
Vicat Softening Point	111 °C	232 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	13 %	13 %	ASTM D1003
Gloss	60 %	60 %	45°; ASTM D2457

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