Dow ELITE™ 5500G Enhanced Polyethylene Resin

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

Material Notes:

ELITE™ 5500G is a copolymer produced via INSITE™ Technology. It offers an exceptional combination of processability, low heat seal initiation temperature, package integrity, optical properties, and tear strength. ELLITE™ 5500 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-5500G-Enhanced-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.914 g/cc	0.0330 lb/in³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	1.5 g/10 min	1.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.501 MPa	1233 psi	ASTM D882
Film Tensile Strength at Yield, TD	8.439 MPa	1224 psi	ASTM D882
Film Elongation at Break, MD	645 %	645 %	ASTM D882
Film Elongation at Break, TD	684 %	684 %	ASTM D882
Secant Modulus, MD	0.1507 GPa	21.86 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.1755 GPa	25.45 ksi	2% Secant; ASTM D882
Impact	20	20	[lb_f]; Puncture Resistance Force; Dow Method
	244	244	[ft-lbf/in³]; Puncture Resistance; Dow Method
Puncture Energy	8.25 J	6.08 ft-lb	Dow Method
Elmendorf Tear Strength MD	860 g	860 g	ASTM D1922
Elmendorf Tear Strength TD	1140 g	1140 g	ASTM D1922
Elmendorf Tear Strength, MD	16.9 g/micron	430 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	22.4 g/micron	570 g/mil	ASTM D1922
Dart Drop Test	530 g	1.17 lb	Method B; ASTM D1709
Film Tensile Strength at Break, MD	65.23 MPa	9461 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, TD	65.07 MPa	9437 psi	ASTM D882
Heat Seal Strength Initiation Temperature	85.0 °C	185 °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	121 °C	250 °F	Dow Method (DSC)
Vicat Softening Point	98.0 °C	208 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	ASTM D1003
Gloss	81 %	81 %	45°; ASTM D2457

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China