

Dow TUFLIN™ HS-7066 NT 7 Linear Low Density Polyethylene Resin

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

Material Notes:

Hexene Linear Low Density Resin Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a TUFLIN™ HS-7066 NT 7 is a fractional melt, ethylene-hexene copolymer, designed for good toughness and stiffness. This product is recommended for thin and thick gauge applications such as consumer trash bags and industrial heavy-duty shipping sacks that require strength and machinability. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-TUFLIN-HS-7066-NT-7-Linear-Low-Density-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	0.80 g/10 min @Load 2.16 kg, Temperature 190 °C	0.80 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	14.78 MPa	2143 psi	ASTM D882
Film Tensile Strength at Yield, TD	16.03 MPa	2325 psi	ASTM D882
Film Elongation at Break, MD	786 %	786 %	ASTM D882
Film Elongation at Break, TD	854 %	854 %	ASTM D882
Secant Modulus, MD	0.2820 GPa	40.90 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.3327 GPa	48.26 ksi	2% Secant; ASTM D882
Impact	18	18	[lb_f]; Puncture Resistance Force; Dow Method
	159	159	[ft-lbf/in³]; Puncture Resistance; Dow Method
	4204	4204	[ft-lbf/in³]; Toughness MD; ASTM D882
	4267	4267	[ft-lbf/in³]; Toughness TD; ASTM D882
Puncture Energy	5.42 J	4.00 ft-lb	Dow Method
Elmendorf Tear Strength MD	465 g	465 g	Method B; ASTM D1922
Elmendorf Tear Strength TD	1116 g	1116 g	Method B; ASTM D1922
Elmendorf Tear Strength, MD			ASTM D1922

Mechanical Properties	9.154 g/micron Metric	232.5 g/mil English	Comments
Elmendorf Tear Strength, TD	22.0 g/micron	558 g/mil	ASTM D1922
Dart Drop Test	<= 100 g	<= 0.221 lb	Method B; ASTM D1709
	186 g	0.410 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	32.19 MPa	4669 psi	ASTM D882
Film Tensile Strength at Break, TD	46.00 MPa	6672 psi	ASTM D882
Heat Seal Strength, Ultimate	21.8 N	4.90 lb (f)	at 180°C, 0.5 sec dwell, 40 psi bar pressure, pull speed 10 (in./min.); Dow Method
Heat Seal Strength Initiation Temperature	130 °C	266 °F	1 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	125 °C	257 °F	Dow Method (DSC)
Vicat Softening Point	113 °C	235 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	16 %	16 %	ASTM D1003
Gloss	54 %	54 %	45°; ASTM D2457
	55 %	55 %	20°; ASTM D2457

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