

Dow TUFLIN™ HS-7028 NT 7 Linear Low Density Polyethylene Resin

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

Material Notes:

Hexene Linear Low Density Resin General Purpose Resin Excellent Strength Complies with U.S. FDA 21 CFR 177.1520 (c) 3.1a (with Restrictions) TUFLIN™ HS-7028 NT 7 is an ethylene-hexene copolymer, designed for good strength and processability. This product is recommended for general-purpose packaging applications from thick gauge, heavy duty bags to high speed thin gauge applications. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-TUFLIN-HS-7028-NT-7-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	12.17 MPa	1765 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.02 MPa	1599 psi	ASTM D882
Film Elongation at Break, MD	701 %	701 %	ASTM D882
Film Elongation at Break, TD	845 %	845 %	ASTM D882
Secant Modulus, MD	0.1994 GPa	28.92 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.1834 GPa	26.60 ksi	2% Secant; ASTM D882
Impact	16	16	[lb_f]; Puncture Resistance Force; Dow Method
	157	157	[ft-lbf/in³]; Puncture Resistance; Dow Method
	3057	3057	[ft-lbf/in³]; Toughness MD; ASTM D882
	3496	3496	[ft-lbf/in³]; Toughness TD; ASTM D882
Puncture Energy	5.08 J	3.75 ft-lb	Dow Method
Elmendorf Tear Strength MD	823 g	823 g	Method B; ASTM D1922
Elmendorf Tear Strength TD	1205 g	1205 g	Method B; ASTM D1922

Mechanical Properties	Metric	English	Comments
Elmendorf Tear Strength, TD	23.72 g/micron	602.5 g/mil	ASTM D1922
Dart Drop Test	132 g	0.291 lb	Method A; ASTM D1709
	270 g	0.595 lb	Method B; ASTM D1709
Film Tensile Strength at Break, MD	40.80 MPa	5918 psi	ASTM D882
Film Tensile Strength at Break, TD	46.91 MPa	6803 psi	ASTM D882
Heat Seal Strength, Ultimate	20.5 N	4.61 lb (f)	at 150°C, 0.5 sec dwell, 40 psi bar pressure, pull speed 10 (in./min.); Dow Method
Heat Seal Strength Initiation Temperature	120 °C	248 °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	124 °C	255 °F	Dow Method (DSC)
Vicat Softening Point	103 °C	217 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	18 %	18 %	ASTM D1003
Gloss	61 %	61 %	45°; ASTM D2457
	90 %	90 %	20°; 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