

Dow TUFLIN™ HS-7094 NT 7 Linear Low Density Polyethylene Resin

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

Material Notes:

Hexene Linear Low Density Resin Good Processability at Narrow Die Gaps Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a TUFLIN™ HS-7094 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 trash bags and heavy-duty shipping sacks that require strength and output. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-TUFLIN-HS-7094-NT-7-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 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
Antiblock Level	6000 ppm	6000 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	15.2 MPa	2210 psi	ASTM D882
Film Tensile Strength at Yield, TD	16.35 MPa	2372 psi	ASTM D882
Film Elongation at Break, MD	740 %	740 %	ASTM D882
Film Elongation at Break, TD	849 %	849 %	ASTM D882
Secant Modulus, MD	0.28989 GPa	42.046 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.3219 GPa	46.69 ksi	2% Secant; ASTM D882
Impact	15	15	[lb_f]; Puncture Resistance Force; Dow Method
	85	85	[ft-lbf/in³]; Puncture Resistance; Dow Method
	4075	4075	[ft-lbf/in³]; Toughness MD; ASTM D882
	4315	4315	[ft-lbf/in³]; Toughness TD; ASTM D882
Puncture Energy	3.16 J	2.33 ft-lb	Dow Method
Elmendorf Tear Strength MD	586 g	586 g	Method B; ASTM D1922

Mechanical Properties	Metric	English	Comments
Elmendorf Tear Strength, MD	11.5 g/micron	293 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	26.1 g/micron	663 g/mil	ASTM D1922
Dart Drop Test	<= 100 g	<= 0.221 lb	Method B; ASTM D1709
	166 g	0.366 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	53.39 MPa	7744 psi	ASTM D882
Film Tensile Strength at Break, TD	47.46 MPa	6884 psi	ASTM D882
Heat Seal Strength, Ultimate	25.8 N	5.80 lb (f)	at 170°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	126 °C	259 °F	Dow Method (DSC)
Vicat Softening Point	114 °C	237 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	21 %	21 %	ASTM D1003
Gloss	26 %	26 %	20°; ASTM D2457
	44 %	44 %	45°; ASTM D2457

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