

Dow TUFLIN™ HS-7065 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-7065 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-7065-NT-7-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.9289 g/cc	0.03356 lb/in ³	ASTM D792
Thickness	20.3 microns	0.800 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	4000 ppm	4000 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	16.62 MPa	2411 psi	ASTM D882
Film Tensile Strength at Yield, TD	19.59 MPa	2841 psi	ASTM D882
Film Elongation at Break, MD	703 %	703 %	ASTM D882
Film Elongation at Break, TD	793 %	793 %	ASTM D882
Secant Modulus, MD	0.2986 GPa	43.31 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.2830 GPa	41.04 ksi	2% Secant; ASTM D882
Impact	10	10	[lb_f]; Puncture Resistance Force; Dow Method
	101	101	[ft-lbf/in³]; Puncture Resistance; Dow Method
	3701	3701	[ft-lbf/in³]; Toughness MD; ASTM D882
	4832	4832	[ft-lbf/in³]; Toughness TD; ASTM D882
Puncture Energy	2.15 J	1.58 ft-lb	Dow Method
Elmendorf Tear Strength MD	171 g	171 g	Method B; ASTM D1922

Mechanical Properties	Metric	English	Comments
Elmendorf Tear Strength, MD	8.4153 g/micron	213.75 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	35.187 g/micron	893.75 g/mil	ASTM D1922
Dart Drop Test	55.0 g	0.121 lb	Method A; ASTM D1709
	<= 100 g	<= 0.221 lb	Method B; ASTM D1709
Film Tensile Strength at Break, MD	48.53 MPa	7038 psi	ASTM D882
Film Tensile Strength at Break, TD	54.01 MPa	7833 psi	ASTM D882
Heat Seal Strength, Ultimate	13.3 N	2.99 lb (f)	at 140°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	126 °C	259 °F	Dow Method (DSC)
Vicat Softening Point	116 °C	241 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	9.0 %	9.0 %	ASTM D1003
Gloss	73 %	73 %	45°; ASTM D2457
	77 %	77 %	20°; ASTM D2457

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