

Dow TUFLIN™ HSE-7002 NT 7 Linear Low Density Polyethylene Resin

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

Material Notes:

Industrial pallet wrap stretch film applications Premium film packaging applications Complies with U.S. FDA 21 CFR 177.1520 (c) 3.1a

TUFLIN™ HSE-7002 NT 7 is an ethylene-hexene-1 copolymer, designed for cast stretch film applications such as industrial pallet wrap.

Films containing HSE-7002 offer outstanding puncture, toughness and load holding properties. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-TUFLIN-HSE-7002-NT-7-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.9178 g/cc	0.03316 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.818 MPa	1424 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.34 MPa	1499 psi	ASTM D882
Film Elongation at Break, MD	697 %	697 %	ASTM D882
Film Elongation at Break, TD	797 %	797 %	ASTM D882
Elongation at Break	471 %	471 %	on-pallet testing: Ultimate Stretch; Highlight Industries Method
Secant Modulus, MD	0.1381 GPa	20.03 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.1375 GPa	19.95 ksi	2% Secant; ASTM D882
Impact	20	20	[lb_f]; Puncture Resistance Force; Dow Method
	290	290	[ft-lbf/in³]; Puncture Resistance; Dow Method
	2723	2723	[ft-lbf/in³]; Toughness MD; ASTM D882
	3161	3161	[ft-lbf/in³]; Toughness TD; ASTM D882
Puncture Energy	8.81 J	6.50 ft-lb	Dow Method
Elmendorf Tear Strength MD	787 g	787 g	Method B; ASTM D1922

Elmendorf Tear Strength TD Mechanical Properties	1060 g Metric	1060 g English	Method B; ASTM D1922 Comments
Elmendorf Tear Strength, MD	15.49 g/micron	393.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	20.9 g/micron	530 g/mil	ASTM D1922
Dart Drop Test	206 g	0.454 lb	Method B; ASTM D1709
	332 g	0.732 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	38.36 MPa	5564 psi	ASTM D882
Film Tensile Strength at Break, TD	37.54 MPa	5445 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	123 °C	253 °F	Dow Method (DSC)
Vicat Softening Point	99.0 °C	210 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	3.0 %	3.0 %	ASTM D1003
Gloss	91 %	91 %	45°; ASTM D2457
	149 %	149 %	20°; ASTM D2457

Descriptive Properties	Value	Comments
Cling g	311	ASTM D5458, unstretched

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