

Dow TUFLIN™ HS-7021 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™ HS-7021 NT 7 is an ethylene-hexene-1 copolymer designed for cast stretch film applications such as industrial pallet wrap. Films containing HS-7021 offer outstanding extensibility and cling properties. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-TUFLIN-HS-7021-NT-7-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	3.2 g/10 min @Load 2.16 kg, Temperature 190 °C	3.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.49 MPa	1521 psi	ASTM D882
Film Tensile Strength at Yield, TD	14.8 MPa	2140 psi	ASTM D882
Film Elongation at Break, MD	732 %	732 %	ASTM D882
Film Elongation at Break, TD	608 %	608 %	ASTM D882
Elongation at Break	574 %	574 %	on-pallet testing: Ultimate Stretch; Highlight Industries Method
Secant Modulus, MD	0.1560 GPa	22.62 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.1546 GPa	22.42 ksi	2% Secant; ASTM D882
Impact	19	19	[lb_f]; Puncture Resistance Force; Dow Method
	264	264	[ft-lbf/in³]; Puncture Resistance; Dow Method
Puncture Energy	7.91 J	5.83 ft-lb	Dow Method
Elmendorf Tear Strength MD	758 g	758 g	Method B; ASTM D1922
Elmendorf Tear Strength TD	979 g	979 g	Method B; ASTM D1922
Elmendorf Tear Strength, MD	14.9 g/micron	379 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	19.27 g/micron	489.5 g/mil	ASTM D1922

Mechanical Properties	Metric	English	Comments
	332 g	0.732 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	40.62 MPa	5892 psi	ASTM D882
Film Tensile Strength at Break, TD	56.3 MPa	8170 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	123 °C	253 °F	Dow Method (DSC)
Vicat Softening Point	100 °C	212 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ASTM D1003
Gloss	90 %	90 %	45°; ASTM D2457
	143 %	143 %	20°; ASTM D2457

Descriptive Properties	Value	Comments
Cling g	242	ASTM D5458, unstretched

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