

Dow FLEXOMER™ ETS-9066 NT 7, 2mil Very Low Density Polyethylene (VLDPE) Resin

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

Material Notes:

FLEXOMER™ ETS-9066 NT 7 is intended for use in single or multi-layer blown-film constructions or thick sheets. Films extruded from ETS-9064 NT 7 have a high tear strength, high impact strength, and high puncture resistance and are readily heat sealable. Addition of slip and antiblock agents should be considered for most applications. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-FLEXOMER-ETS-9066-NT-7-2mil-Very-Low-Density-Polyethylene-VLDPE-Resin.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	0.50 g/10 min	0.50 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.0 MPa	1450 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Break, MD	660 %	660 %	ASTM D882
Film Elongation at Break, TD	790 %	790 %	ASTM D882
Secant Modulus, MD	0.1172 GPa	17.00 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.131 GPa	19.0 ksi	2% Secant; ASTM D882
Impact	337	337	[ft-lbf/in ³]; Puncture Resistance; Dow Method
	3250	3250	[ft-lbf/in ³]; Toughness MD; ASTM D882
	3570	3570	[ft-lbf/in ³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	675 g	675 g	ASTM D1922
Elmendorf Tear Strength TD	990 g	990 g	ASTM D1922
Elmendorf Tear Strength, MD	13.29 g/micron	337.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	19.5 g/micron	495 g/mil	ASTM D1922
Dart Drop Test	858 g	1.89 lb	Method B; ASTM D1709

Film Tensile Strength at Break, MD Mechanical Properties	56.1 MPa Metric	8130 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	51.2 MPa	7430 psi	ASTM D882
Heat Seal Strength Initiation Temperature	95.0 °C	203 °F	2 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	122 °C	252 °F	Dow Method (DSC)
Vicat Softening Point	88.0 °C	190 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	15 %	15 %	ASTM D1003
Gloss	52 %	52 %	45°; ASTM D2457
Transmission, Visible	97 %	97 %	Clarity; ASTM D1746

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