

Dow FLEXOMER™ ETS-9066 NT 7, 0.8 mil 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-7-08-mil-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	20.3 microns	0.800 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	10.7 MPa	1550 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.3 MPa	1500 psi	ASTM D882
Film Elongation at Break, MD	480 %	480 %	ASTM D882
Film Elongation at Break, TD	740 %	740 %	ASTM D882
Secant Modulus, MD	0.1296 GPa	18.80 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.1220 GPa	17.70 ksi	2% Secant; ASTM D882
Impact	488	488	[ft-lbf/in³]; Puncture Resistance; Dow Method
	2800	2800	[ft-lbf/in³]; Toughness MD; ASTM D882
	3300	3300	[ft-lbf/in³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	260 g	260 g	ASTM D1922
Elmendorf Tear Strength TD	400 g	400 g	ASTM D1922
Elmendorf Tear Strength, MD	12.8 g/micron	325 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	19.7 g/micron	500 g/mil	ASTM D1922
Dart Drop Test	594 g	1.31 lb	Method B; ASTM D1709

Film Tensile Strength at Break, MD Mechanical Properties	62.4 MPa Metric	9050 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	48.3 MPa	7000 psi	ASTM D882
Heat Seal Strength Initiation Temperature	95.0 °C	203 °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	122 °C	252 °F	Dow Method (DSC)
Vicat Softening Point	88.0 °C	190 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	9.5 %	9.5 %	ASTM D1003
Gloss	55 %	55 %	45°; ASTM D2457
Transmission, Visible	96 %	96 %	Clarity; ASTM D1746

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