



DOW[™] LLDPE DFDA-7059 NT 7 Linear Low Density Polyethylene Resin

Overview

DOW DFDA-7059 NT 7 Linear Low Density Polyethylene Resin is an ethylene-butene copolymer which is supplied in pelleted form. It is generally recommended for slot cast thin film applications requiring both clarity and toughness. It is excellent in coextruded, slot cast stretch wrap. This resin is also suitable for use in hose and tube applications.

- Main Characteristics:
 - · High clarity
 - · High tensile strength
 - High elongation
 - · Good puncture resistance

Complies with:

- U.S. FDA 21 CFR 177.1520(c) 3.2a
- EU, No 10/2011
- Canadian HPFB No Objection

Consult the regulations for complete details.

Additive

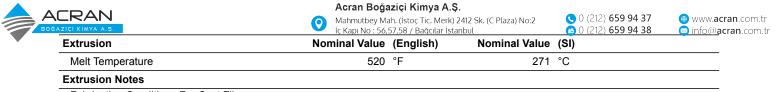
Antiblock: No

Slip: No

Processing Aid: No

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.918	g/cm³	0.918	g/cm³	ASTM D792
Base Density ¹	0.918	g/cm³	0.918	g/cm³	Dow Method
Melt Index (190°C/2.16 kg)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Strength ²					ASTM D638
Yield	1380	psi	9.51	MPa	
Break	1490	psi	10.3	MPa	
Tensile Elongation ²					ASTM D638
Yield	11	%	11	%	
Break	570	%	570	%	
Flexural Modulus - 2% Secant ²	32000	psi	221	MPa	ASTM D790B
Films	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Film Thickness - Tested	1	mil	25	μm	
Tensile Strength					ASTM D882
MD : Break, 1.0 mil (25 µm), Cast Film	5000	psi	34.5	MPa	
TD : Break, 1.0 mil (25 μm), Cast Film	3600	psi	24.8	MPa	
Tensile Elongation					ASTM D882
MD : Break, 1.0 mil (25 µm), Cast Film	450	%	450	%	
TD : Break, 1.0 mil (25 μm), Cast Film	850	%	850	%	
Dart Drop Impact					ASTM D1709A
1.0 mil (25 μm), Cast Film	70	g	70	g	
Elmendorf Tear Strength					ASTM D1922
MD : 1.0 mil (25 μm), Cast Film	50	g	50	g	
TD : 1.0 mil (25 μm), Cast Film	400	g	400	g	
Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Melting Temperature (DSC)	257	°F	125	°C	Dow Method
Optical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Gloss (45°, 1.00 mil (25.4 µm), Cast Film)	92		92		ASTM D2457
Haze (1.00 mil (25.4 µm), Cast Film)	2.50	%	2.50	%	ASTM D1003
Additional Information					

Film properties are typical of slot-cast film extruded at 520°F (270°C).



Fabrication Conditions For Cast Film:

• Extrudable by conventional slot cast film extrusion equipment with only minor machine modifications necessary for optimum use.

• Melt Temperature: 520°F (270°C)

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

² Plaque molded and tested in accordance with ASTM D4976.

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	0	Mahmutbey Mah. (İstoç Tic. Merk) 2		C 0 (212) 659 94 37	www.acran.com.			
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Additional	North America		Europe/Middle Eas	st +800-	-3694-6367			
Information	U.S. & Canada:	1-800-441-4369			1567-2626			
mormation	Mexico:	1-989-832-1426 +1-800-441-4369	Italy:	+80	00-783-825			
	Latin America Argentina: Brazil:	+54-11-4319-0100 +55-11-5188-9000	South Africa	+80	00-99-5078			
	Colombia: Mexico:	+57-1-219-6000 +52-55-5201-4700	Asia Pacific		-7776-7776 -7965-5392			
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