

NA940 Low Density Polyethylene Film Extrusion Grade

Grade Additive packages Applications
NA9400.000 Slip (None), Antiblock (None) Heavy Duty film

PRODUCT DESCRIPTION

NA940 is designed for heavy duty film applications. Superior puncture resistance combined with excellent impact properties make NA940 an ideal choice for bags used to package fertilizer, peat moss, agricultural and construction materials.

Properties*		Metric Units		English	
	Test Method	Typical Value	Unit	Typical Value	Unit
Melt Flow Index	ASTM D1238	0.25	g/10 min.	0.25	g/10 min
Density (23°C)	ASTM D792	0.918	g/cm³	0.918	g/cm³
Vicat Softening Point	ASTM D 1525	90	°C	90	194 ºF
Film Properties¹					
Dart Drop Impact Strength F50	ASTM D1709	220	g	220	g
Tensile Strengh					
MD	ASTM D882	21	MPa	3000	psi
TD	ASTM D882	19	MPa	2800	psi
Elmendorf Tear Strength					
MD	ASTM D1992	220	g	220	g
TD	ASTM D1992	200	g	200	g
Elongation					
MD	ASTM D882	300	%	300	%
TD	ASTM D882	540	%	540	%
1 % Secant Modulus					
MD	ASTM E111	165	MPa	24000	psi
TD	ASTM E111	186	MPa	27000	psi
Flexural Modulus	ASTM D790	234	MPa	34000	psi
Hardness Shore D	ASTM D2240	50		0	

^{*} Typical Value of Properties which can vary with in specification limits and are not to be construed as specifications.

The technical information, suggested uses and applications presented are made without charge and are believed to be reliable; however, ICD America LLC disclaims responsibility for reliance and results of use of this information. ICD AMERICA LLC DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE PRODUCT(S) DESCRIBED HEREINABOVE, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ICD America LLC expressly disclaims any statements or suggestions as being inducement. All users should rely upon their own knowledge and testing in determining product suitability.

¹ Film produced in a 3½ " (89mm) blown film line, commercials available 8" (203mm) die, 430 °F (221 °C) melt extrusion temperature 2:1 BUR, 2 mil (51 micron) gauge, 0.0025 " due gap at 170 lb/hr.