

LD039

Low Density Polyethylene Extrusion Grade

Grade

LD039

Additive packages

Slip (None), Antiblock (None)

Applications:

Agricultural Film, Heavy Duty, Bags Foams
 Construction Film, Pallet Shrink Film, Profile Extrusion
 High performance Collation Shrink

PRODUCT DESCRIPTION

Icelene® LD039 is a high performance film resin, offering excellent extrusion processing and outstanding melt strength characteristics suitable for thick film gauges and large lay flat widths. It exhibits medium optical properties in film. Icelene® LD039 meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

Properties*	Test Method	Metric Units		English	
		Typical Value	Unit	Typical Value	Unit
Melt Flow Index	ASTM D1238	0.33	g/10 min.	0.33	g/10 min
Density (23°C)	ASTM D1505	0.922	g/cm ³	0.922	g/cm ³
Film Properties¹					
Dart Impact	ASTM D1709	490	g	490	g
Tensile Strength at Break					
MD	ASTM D882	24	MPa	3600	psi
TD	ASTM D882	22	MPa	3200	psi
Tensile Strength at Yield					
MD	ASTM D882	12.4	MPa	1800	psi
TD	ASTM D882	11.72	MPa	1700	psi
Tensile Elongation at Break					
MD	ASTM D882	280	%	280	%
TD	ASTM D882	540	%	540	%
1 % Secant Modulus					
MD	ASTM D882	227	MPa	33000	psi
TD	ASTM D882	282	MPa	41000	psi
Elmendorf Tear Strength					
MD	ASTM 1922	260	g	260	psi
TD	ASTM D1922	490	g	490	psi
Gloss (45°)	D2457	45		45	
Haze	D1003	45	%	45	%

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

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