

ICELENE FR2233C

Fractional Melt LDPE Resin with no Slip or Antiblock

Grade	Additive packages	Applications
ICELENE FR2233C	Slip (0 ppm), Antiblock (0 ppm)	Agricultural Film, Construction Film, Blend Partner Heavy Duty, Pallet Shrink Film, Profile Extrusion High Performance Collation Shrink, Bags Foams

PRODUCT DESCRIPTION

ICELENE FR2233C is a certified prime resin intended for use in high performance film applications offering excellent extrusion processing and outstanding melt strength characteristics suitable for thick film gauges and large lay flat widths. ICELENE FR2233C resin complies with the specifications contained in the U.S. Food and Drug Administration (FDA) regulation 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, Condition E, 190°C/2.16 kg	ASTM D1238	0,33	g/10 min.	0,33	g/10 min
Density	ASTM D1505	0,922	g/cc	0,922	g/cc
Film Properties¹					
Dart Impact	ASTM D1709	186	g	186	g
Elmendorf Tear Strength					
MD	ASTM D1922	159	g	159	g
TD	ASTM D1922	115	g	115	g
Tensile Strength at Yield					
MD	ASTM D882	15	Mpa	2067	psi
TD	ASTM D882	13	Mpa	1809	psi
Tensile Strength at Break					
MD	ASTM D882	30	MPa	4289	psi
TD	ASTM D882	23	MPa	3303	psi
Elongation at Break					
MD	ASTM D882	302	%	302	%
TD	ASTM D882	582	%	582	%
Secant Modulus @ 1%					
MD	ASTM D882	189	MPa	27300	psi
TD	ASTM D882	293	MPa	42500	psi
Haze	ASTM D1003	29.0	%	29.0	%
Gloss @ 45°	ASTM D2457	25		25	

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

Note: Film properties based on 2.0 mil (50.8 micron) thick blown film produced with a 150 mm (5.90 in.) die diameter, a 1.0 mm (39.4 thou) die gap, a 2.5:1 Blow Up Ratio, and a specific output rate of 8.5 (lb./hr.)/in. die circ.

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