



DOW™ LDPE SC 7642

Low Density Polyethylene Resin

Overview

LDPE SC 7642 Polyethylene Resin is designed for high speed cast extrusion lines, where it provides excellent draw down, low neck-in and high melt stability with a good balance between stiffness and tear resistance. Due to its density, the coefficient of friction of films made with LDPE SC 7642 Polyethylene Resin will be lower. In association with DOWLEX® resins, it gives films with a superior balance between machine and cross direction properties. This resin can be readily extruded using conventional cast film techniques, using melt temperatures between 200 and 270 °C.

Complies with:

- EU No 10/2011
- U.S. FDA 21 CFR 177.1520(c)2.2

Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.928 g/cm ³	0.928 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.45	0.45	
vs. Metal - Dynamic	0.45	0.45	
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1 mil	38 µm	
Tensile Strength			ASTM D882
MD : Yield	725 psi	5.00 MPa	
TD : Yield	653 psi	4.50 MPa	
MD : Break	1450 psi	10.0 MPa	
TD : Break	1020 psi	7.00 MPa	
Tensile Elongation			ASTM D882
MD : Break	280 %	280 %	
TD : Break	280 %	280 %	
Elmendorf Tear Strength			ASTM D1922
MD	130 g	130 g	
TD	160 g	160 g	

Notes

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

