

DOW™ LDPE SC 7642

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

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.

General Information			
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1520(c) 2.2		
Forms	Pellets		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.928	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.45		
vs. Metal - Dynamic	0.45		
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Tensile Strength			ASTM D882
MD : Yield	5.00	MPa	
TD : Yield	4.50	MPa	
MD : Break	10.0	MPa	
TD : Break	7.00	MPa	
Tensile Elongation			ASTM D882
MD : Break	280	%	
TD : Break	280	%	
Elmendorf Tear Strength			ASTM D1922
MD	130	g	
TD	160	g	

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