

DINALEN® 30

Low Density Polyethylene

DIOKI d.d.

Message:

DINALEN® 30 is low density polyethylene containing no additives. It is primarily intended for blow film extrusion while other processing techniques can be used to a lesser extent.

DINALEN® 30 exhibits very good draw-down with good balance of stiffness, mechanical and optical properties of extruded film.

DINALEN® 30 is extruded at recommended melt temperature range between 165°C and 185°C.

Recommended film thickness: 0.030 mm to 0.100 mm.

General Information	
Features	Additive Free
	Food Contact Acceptable
	Good Drawdown
	Good Processability
	Good Stiffness
	High Gloss
	Opticals
Uses	Film
	General Purpose
	Packaging
	Piping
	Shrink Wrap
	Thick-walled Parts
	Wire & Cable Applications
Agency Ratings	EC 1907/2006 (REACH)
	EU 2002/72/EC
	EU 2004/1/EC
	EU 2004/19/EC
	EU 2005/79/EC
	EU 2007/19/EC
	EU 2008/39/EC
	EU 94/62/EC
RoHS Compliance	RoHS Compliant
Forms	Pellets
Processing Method	Blow Molding
	Blown Film
	Coextrusion

Film Extrusion
Injection Molding
Pipe Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	45		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	200	MPa	ISO 527-2/200
Tensile Stress			ISO 527-2/200
Yield, Compression Molded	11.0	MPa	
Break, Compression Molded	16.0	MPa	
Tensile Strain (Break, Compression Molded)	650	%	ISO 527-2/200
Coefficient of Friction			ISO 8295
vs. Itself - Dynamic	> 0.40		
vs. Itself - Static	> 0.40		
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Thickness - Recommended / Available	0.030 mm to 0.100 mm		
Tensile Strength			ISO 527-3/500
TD : Blown Film	18.0	MPa	
MD : 50 µm, Blown Film	23.0	MPa	
Tensile Elongation			ISO 527-3/500
MD : Break, 50 µm, Blown Film	220	%	
TD : Break, 50 µm, Blown Film	320	%	
Dart Drop Impact (50 µm, Blown Film)	250	g	ISO 7765-1
Trouser Tear Resistance ¹			ISO 6383-1
MD : 50 µm, Blown Film	93.0	N/mm	
TD : 50 µm, Blown Film	58.0	N/mm	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.0	°C	ISO 306/A50
Melting Temperature	114	°C	ISO 11357-3
Optical	Nominal Value		
Gloss			
20°, 50.0 µm, Blown Film	> 50		
60°, 50.0 µm, Blown Film	> 100		
NOTE			

1. 250 mm/min

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