

DINALEN® 20

Low Density Polyethylene

DIOKI d.d.

Message:

DINALEN® 20 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® 20 exhibits very good draw-down with good balance of stiffness, mechanical and optical properties of extruded film.

DINALEN® 20 is extruded at recommended melt temperature range between 175°C and 200°C.

Recommended film thickness: 0.050 mm to 0.200 mm.

General Information	
Features	Rigid, good
	Highlight
	Optical
	Workability, good
	Good stripping
	Compliance of Food Exposure
	No additive
Uses	Packaging
	Films
	Laminate
	Wire and cable applications
	Industrial application
	Piping system
	Thick wall fittings (parts)
	Mixing
	Architectural application field
	Agricultural application
	Shrinkable film
	Heavy packing bag
Agency Ratings	EC 1907/2006 (REACH)
	EU 2004/1/EC
	EU 2004/19/EC
	EU 2005/79/EC
	EU 2007/19/EC
	EU 2008/39/EC
	EU 94/62/EC
	European 2002/72/EC

RoHS Compliance	RoHS compliance
Appearance	Clear/transparent
Forms	Particle
Processing Method	Film extrusion Blow film Blow molding Pipeline extrusion molding Injection molding

Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	46		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, molding	11.0	MPa	ISO 527-2/200
Fracture, molding	18.0	MPa	ISO 527-2/200
Tensile Strain (Break, Compression Molded)	750	%	ISO 527-2/200
Coefficient of Friction (Blown Film)	> 0.40		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Thickness - Recommended / Available	0.050 mm to 0.200 mm		
Tensile Strength			ISO 527-3/500
MD: 50 µm, blown film	25.0	MPa	ISO 527-3/500
TD: 50 µm, blown film	19.0	MPa	ISO 527-3/500
Tensile Elongation			ISO 527-3/500
MD: Broken, 50 µm, blown film	220	%	ISO 527-3/500
TD: Broken, 50 µm, blown film	320	%	ISO 527-3/500
Dart Drop Impact (50 µm, Blown Film)	260	g	ISO 7765-1
Trouser Tear Resistance ¹			ISO 6383-1
MD : 50 µm, Blown Film	78.0	N/mm	ISO 6383-1
TD : 50 µm, Blown Film	52.0	N/mm	ISO 6383-1
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°C	ISO 306/A50
Melting Temperature	113	°C	ISO 11357-3
Optical	Nominal Value		
Gloss			
20°, 50.0 µm	> 30		

60°, 50.0 μm	60
Additional Information	
Film properties taken from	
NOTE	
1.	250 mm/min

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

