DINALEN® 55

Low Density Polyethylene

DIOKI d.d.

Message:

DINALEN® 55 is low density polyethylene containing slip and anti-blocking additives. It is primarily intended for blow and cast film extrusion while other processing techniques can be used to a lesser extent.
DINALEN® 55 exhibits very good draw-down with good balance of stiffness, mechanical and optical properties of extruded film.
DINALEN® 55 is extruded at recommended melt temperature range between 160°C and 180°C. Recommended film thickness: 0.25 to 0.05mm.
Application
Thin slippery film of high gloss and transparency
Production of film for lamination
Production of film for a variety of primary flexible packaging like FFS for foodstuffs, sanitary articles, chemicals
Film production for a many kinds of carrier-bags, like airport security bags, DTK bags, cooler-bags, T-shirt-bags, shoulder-bags
Blending with DINALEN 50 to obtain a less slippery film
Mixing and co-extrusion with suitable i-polybutene-1 grades to produce film for peel systems
Mixing and co-extrusion with suitable polyolefin grades

General Information	
Additive	Antiblock Slip
Features	Antiblocking High Clarity High Gloss Opticals Slip
Uses	Bags Blending Film Food Packaging Laminates Packaging
Agency Ratings	EC 1907/2006 (REACH) EU 2002/72/EC EU 2004/19/EC EU 94/62/EC
RoHS Compliance	RoHS Compliant
Forms	Pellets
Processing Method	Blown Film Coextrusion Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	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
Tensile Stress			ISO 527-2
Yield, Compression Molded	11.0	MPa	
Break, Compression Molded	15.0	MPa	
Tensile Strain (Break, Compression Molded)	620	%	ISO 527-2
Coefficient of Friction			ISO 8295
vs. Itself - Dynamic	< 0.11		
vs. Itself - Static	< 0.11		
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	50	µm	
Film Thickness - Recommended / Available	0.025mm to 0.050 mm		
Tensile Strength			ISO 527-3
MD : 50 µm	20.0	MPa	
TD : 50 µm	17.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 50 µm	220	%	
TD : Break, 50 µm	330	%	
Dart Drop Impact [1] (50 µm)	220	g	ISO 7765-1
Trouser Tear Resistance			ISO 6383-1
MD : 50 µm	90.0	N/mm	
TD : 50 µm	80.0	N/mm	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	94.0	°C	ISO 306/A50
Melting Temperature	113	°C	ISO 11357-3
Optical	**Nominal Value**		**Test Method**
Gloss			ASTM D2457
20°, 50.0 µm	> 60		
60°, 50.0 µm	> 110		
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	160 to 180	°C	
NOTE			
1.	Profile 2		

Recommended distributors for this material

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