

Alastian PE LD2-1

Polyethylene, Low Density

Product Description

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Processing Method	Extrusion, Film, Blown, Film, Cast
Features	Antiblocking, Unspecified, Optical, Processability, Good, Slip, Unspecified, Friction, Low
Typical Customer Applications	Bags, Film, Shrink Film, Blown Film, Cast Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.925	g/cm ³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	1.9	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	260	MPa
Tensile Stress at Yield	ISO 527-1, -2	11.0	MPa
Tensile Strength	ISO 527-1, -3	18.0	MPa
		26.0	MPa
Tensile Strain at Break	ISO 527-1, -3	250	%
		600	%
Hardness			
Shore hardness (Shore D)	ISO 868	48	
Ball indentation hardness (H 49/30)	ISO 2039-1	18.0	MPa
Thermal			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	94.0	°C
Melting Temperature	ISO 3146	111	°C
Film			
Melt Temperature		160 to 200	°C

Notes

Typical properties; not to be construed as specifications.

Additional Properties

Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 2:1.

Natural Silica, ISO 3451-1: 0.1%

Erucamide, DIN 51454: 0.05%

Failure Energy, DIN 53373, 50 µm: 4 J/mm

Coefficient of Friction, ISO 8295: 20%

Recommended Film Thickness: 25 to 60 µm