

TOTAL Polyethylene LDPE 1022 FN 24

Low Density Polyethylene

TOTAL Refining & Chemicals

Message:

LDPE 1022 FN 24 is a low density polyethylene made by a high pressure autoclave process.
Grade adapted to the production of flexible parts with a high production rate.
Application examples: caps, closures, lids, household items, master-batches.
LDPE 1022 FN 24 is suited to many applications in the field of consumer, industrial, food or hygiene packaging such as bags, lamination and coextrusion film.

General Information			
Uses	Bags		
	Caps		
	Closures		
	Film		
	Household Goods		
	Laminates		
	Lids		
	Masterbatch		
Processing Method	Coextrusion		
	Film Extrusion		
	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.3	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	47		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	260	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	10.0	MPa	
Break	11.0	MPa	
Tensile Strain (Break)	520	%	ISO 527-2
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
Film Thickness - Recommended / Available	25 to 150 µm		
Tensile Stress			ISO 527-3
MD : Yield, 40 µm, Blown Film	12.0	MPa	
TD : Yield, 40 µm, Blown Film	11.5	MPa	

MD : Break, 40 μm, Blown Film	22.0	MPa	
TD : Break, 40 μm, Blown Film	20.0	MPa	
Dart Drop Impact	95	g	ISO 7765-1
Elmendorf Tear Strength ¹			ISO 6383-2
MD : 40.0 μm	75.0	kN/m	
TD : 40.0 μm	62.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.0	°C	ISO 306
Melting Temperature	109	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Haze (40.0 μm, Blown Film)	7.0	%	ISO 14782
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 250	°C	
Mold Temperature	30.0 to 40.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	150 to 190	°C	
NOTE			

1. Blown Film

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