

Braskem PE IN-34

Linear Low Density Polyethylene

Braskem

Message:

IN34 is a Linear Low density Polyethylene, narrow molecular weight butene-1 copolymer, produced by solution process, for injection molding applications. It offers high fluidity, excellent flexibility and low warpage.

Application:

It is specially developed for lids fast-cycle molding injection, natural color and dyed for food. It is also recommended for the market food.

General Information			
Features	Butene Comonomer		
	Copolymer		
	Food Contact Acceptable		
	Good Flexibility		
	High Flow		
	Low Warpage		
	Narrow Molecular Weight Distribution		
Uses	Lids		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.939	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	48	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	54		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	19.0	MPa	
Break, Compression Molded	10.0	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	12	%	
Break, Compression Molded	100	%	
Apparent Bending Modulus	645	MPa	ASTM D747
Flexural Modulus - 1% Secant (Compression Molded)	640	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	70	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	49.0	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525 ¹
Additional Information	Nominal Value	Unit	Test Method
Rigidity	645	MPa	ASTM D747
Injection	Nominal Value	Unit	
Processing (Melt) Temp	170 to 210	°C	
NOTE			

1. Loading 1 (10 N)

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