

Braskem PE IF 33

Linear Low Density Polyethylene

Braskem

Message:

IF33 is a Linear Low Density Polyethylene, narrow molecular weight butene-1 copolymer, produced by solution process, for injection molding applications. It offers high fluidity, good flexibility and low warpage. It contains antioxidant additive.

Application:

Resin has been specifically developed for injection molding lids seal and lids for food containers, housewares, containers and general purpose.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Butene Comonomer		
	Copolymer		
	Good Flexibility		
	High Flow		
	Low Warpage		
	Narrow Molecular Weight Distribution		
Uses	Containers		
	Food Containers		
	Household Goods		
	Lids		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.931	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	48	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 2.00 mm, 10% Igepal, Compression Molded, F50)	< 1.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	51		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	15.0	MPa	
Break, Compression Molded	9.00	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	14	%	

Break, Compression Molded	100	%	
Apparent Bending Modulus	490	MPa	ASTM D747
Flexural Modulus - 1% Secant (Compression Molded)	540	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	90	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	46.0	°C	ASTM D648
Vicat Softening Temperature	97.0	°C	ASTM D1525 ¹
NOTE			

1. Loading 1 (10 N)

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