

# Braskem PE IA 59

High Density Polyethylene

Braskem

Message:

Description:  
IA59 is a High Density Polyethylene, narrow molecular weight homopolymer, produced by solution process for injection molding applications. It offers high processability and low warpage. It contains antioxidant additive.

Application:  
Cases, pails, food and general purpose containers for indoor applications.

General Information			
Additive	Antioxidation		
Features	Low warpage		
	Homopolymer		
	Antioxidation		
	Workability, good		
	Compliance of Food Exposure		
	Narrow molecular weight distribution		
Uses	Container		
	Food container		
	Barrel		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.3	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 2.00 mm, 10% Igepal, Compression Molded, F50)	< 3.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	58		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	28.0	MPa	ASTM D638
Fracture, molding	25.0	MPa	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1300	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (Compression Molded)	75	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	81.0	°C	ASTM D648
Vicat Softening Temperature	129	°C	ASTM D1525 <sup>1</sup>
Additional Information			
Recommended Processing Conditions:IA 59 has been developed for injection molding under conditions comparable to High Density Polyethylene of similar Melt Flow Index.			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	160 - 230	°C	
NOTE			
1.	压 力1 (10N)		

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