

# Braskem PE IA59

High Density Polyethylene

Braskem IDESA

## Message:

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.

Applications:

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

Process:

Injection Molding.

General Information			
Features	Low warpage		
	Homopolymer		
	Workability, good		
	General		
	Narrow molecular weight distribution		
Uses	Container		
	Food container		
	General		
	Barrel		
Agency Ratings	FDA 21 CFR 177.1520		
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
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	28.0	MPa	ASTM D638
Fracture, molding	15.0	MPa	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1250	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)	72.0	°C	ASTM D648
Vicat Softening Temperature	129	°C	ASTM D1525 <sup>1</sup>
NOTE			
1.	压力1 (10N)		

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## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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