

# Braskem PE IE-59 U3

High Density Polyethylene

Braskem

Message:

IE59U3 is a High Density Polyethylene, narrow molecular weight homopolymer, produced by solution process for injection molding applications. It offers high stiffness and impact strength, good processability and low warpage. It contains light stabilizer and antioxidant additive.

Application:

Large containers, technical articles with high mechanical and weathering resistance. buckets, trash containers, crates and safety helmets.

General Information			
Additive	Antioxidant		
	UV Stabilizer		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	Good UV Resistance		
	High Stiffness		
	Homopolymer		
	Low Warpage		
	Narrow Molecular Weight Distribution		
Uses	Containers		
	Crates		
	Safety Helmets		
	Waste Containers		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.959	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 2.00 mm, 10% Igepal, Compression Molded, F50)	< 4.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength			ASTM D638
Yield, Compression Molded	28.0	MPa	
Break, Compression Molded	26.0	MPa	
Flexural Modulus - 1% Secant (Compression Molded)	1200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	74.0	°C	ASTM D648
Vicat Softening Temperature	129	°C	ASTM D1525 <sup>1</sup>
Injection	Nominal Value	Unit	
Processing (Melt) Temp	160 to 230	°C	
NOTE			
1.	Loading 1 (10 N)		

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#### Recommended distributors for this material

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