

Braskem PE IA 58

High Density Polyethylene

Braskem

Message:

Description:
IA58 is a High Density Polyethylene, narrow molecular weight butene-1 copolymer, produced by solution process, for injection molding applications. It offers good processability combined with good impact strength and stiffness. It contains antioxidant additive.

Application:
Housewares, toys and general purpose containers for indoor applications.

General Information			
Additive	Antioxidation		
Features	Butene comonomer		
	Rigid, good		
	High density		
	Copolymer		
	Antioxidation		
	Impact resistance, good		
	Workability, good		
	Compliance of Food Exposure		
	Narrow molecular weight distribution		
	Uses	Household goods	
Container			
Toys			
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.957	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	22	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 2.00mm, 10% Igepal, molded, F50	< 2.00	hr	ASTM D1693
50°C, 2.00mm, 100% Igepal, molded, F50	< 2.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	27.0	MPa	ASTM D638

Fracture, molding	26.0	MPa	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	35	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	77.0	°C	ASTM D648
Vicat Softening Temperature	126	°C	ASTM D1525 ¹
Additional Information			
IA58 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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