Braskem PE IB-58

High Density Polyethylene

Braskem

Message:

IB58 is a High Density Polyethylene, narrow molecular weight butene-1 copolymer, produced by solution process, for injection molding applications. It offers very good processability combined with good stiffness, impact strength and stress crack resistance. It contains antioxidant additive.
Application:
Thin-wall articles, housewares, toys, food containers and general purpose containers for indoor applications.

General Information			
Additive	Antioxidant		
Features	Antioxidant Butene Comonomer Food Contact Acceptable Good Impact Resistance Good Processability Good Stiffness High ESCR (Stress Crack Resist.) Narrow Molecular Weight Distribution		
Uses	Containers Food Containers Household Goods Thin-walled Parts Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.958	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 2.00 mm, 10% Igepal, Compression Molded, F50	< 1.00	hr	
50°C, 2.00 mm, 100% Igepal, Compression Molded, F50	< 2.00	hr	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, Compression Molded)	59		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)	1230	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	30	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	125	°C	ASTM D1525 [1]
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	160 to 230	°C	
NOTE			
1.	Loading 1 (10 N)		

Recommended distributors for this material

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