

## High Density Polyethylene IB58

**Description:**

IB58 is a High Density Polyethylene, narrow molecular weight distribution, for injection molding applications. It offers very good processability combined with good stiffness, impact strength and stress crack resistance.

**Applications:**

Thin-wall articles, housewares, toys, food containers and general purpose containers for indoor applications.

**Additives:**

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**Process:**

Injection Molding.

**Control Properties:**

	ASTM Methods	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	35
Density	D 792	g/cm <sup>3</sup>	0.958

**Typical Properties:**

Plaque Properties<sup>a</sup>

	ASTM Methods	Units	Values
Tensile Strength at Break	D 638	MPa	28
Flexural Modulus – 1% Secant	D 790	MPa	1225
Shore D Hardness	D 2240	-	62
Notched Izod Impact Strength	D 256	J/m	25
Vicat Softening Temperature at 10 N	D 1525	°C	127
Deflection Temperature under Load at 0.455 MPa	D 648	°C	69

(a) Test specimens prepared from compression molded sheet made according to ASTM D 4703.

**Recommended Processing Conditions:**

IB58 has been developed for injection molding under conditions comparable to High Density Polyethylene of similar Melt Flow Index.

Recommended temperature profile: 160 to 230°C.

