

High Density Polyethylene IA58**Description:**

IA58 is a high density polyethylene, with narrow molecular weight distribution, for injection molding applications. It offers good processability combined with good impact strength and stiffness.

Applications:

Toys, Thin wall parts, Houseware, Caps

Processes:

Injection Molding

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	22
Density	D 792	g/cm ³	0.957

Typical Properties - Plaque¹:

Plaque Properties

Feature	Method	Units	Values
Tensile Strength at Yield (a)	D 638	MPa	28
Tensile Strength at Break (a)	D 638	MPa	15
Flexural Modulus - 1% Secant (b)	D 2240	MPa	1150
Shore D Hardness (c)	D 2240	-	63
Izod Impact Strength (b)	D 256	J/m	35
Deflection Temperature under Load at 0.455 MPa (b)	D 648	°C	65
Vicat Softening Temperature at 10 N (b)	D 1525	°C	126

¹ Test specimens from compression molded plaque according to ASTM D4703. Plaque Thickness: a) 2mm. b) 3mm c) 6mm. NB = No break.

