

## High Density Polyethylene HDB0355

### Description:

HDB0355 is a high density polyethylene copolymer developed for blow molding applications. This product is suitable for applications that require a good Environmental Stress Cracking Resistance (ESCR).

### Applications:

containers for household products, Containers for chemical industry (HIC), Containers for pharmaceutical industry, Containers for cosmetic industry

### Processes:

Extrusion Blow Molding

### Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	ASTM D 1238	g/10 min	0.350
Density	ASTM D 792	g/cm <sup>3</sup>	0.953

### Typical Properties<sup>1</sup>

Feature	Method	Units	Values
Tensile Strength at Yield	ASTM D 638	MPa	25
Tensile Strength at Break	ASTM D 638	MPa	20
Strain at Yield	ASTM D 638	%	6
Strain at Break	ASTM D 638	%	515
Elasticity Modulus (Secant 1%)	ASTM D 638	MPa	1250
Flexural Modulus (Secant 1%)	ASTM D 790	MPa	1300
Izod Impact Strength <sup>3</sup>	ASTM D 256/A	J/m	110
Heat Deflection Temperature (0.455 MPa)	ASTM D 648	°C	70
Vicat Softening Point (10 N)	ASTM D 1525	°C	127
ESCR (10% Igepal) <sup>2</sup>	ASTM D 1693	h	7
ESCR (100% Igepal) <sup>2</sup>	ASTM D 1693	h	18
FNCT	ISO 16670	min	100

<sup>1</sup> Test specimens from compression molded plaque according to ASTM D4703.

<sup>2</sup> Condition B.

<sup>3</sup> Test temperature at 23°C.

### Final Remarks

- It is the sole responsibility of the Client/Purchaser of this Product to verify the suitability of this Product and its use for the intended use and to ensure compliance with legal and regulatory requirements applicable to the final product.
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