

## High Density polyethylene HDB0358

### Description:

HDB0358 is a bimodal high-density polyethylene copolymer grade. Offers an outstanding balance between stiffness, impact strength and Environmental Stress Cracking Resistance (ESCR), ideal for a wide range of blow moulding applications. This grade is particularly well suited to chemical and detergent packaging as the exceptional ESCR can allow for significant bottle weight reduction.

### Applications:

Packages, Small bottles, Blow molding of packages up to 25 L for chemical and household products, oils and food packaging, Sheets extrusion and Corrugated pipe extrusion

### Processes:

Extrusion Blow Molding, General extrusion.

### Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	ASTM D1238	g/10 min	0.30
Density	ASTM D792	g/cm <sup>3</sup>	0.958

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

Feature	Method	Units	Values
Tensile Strength at Yield	ASTM D 638	MPa	30
Tensile Strength at Break	ASTM D 638	MPa	35
Strain at Yield	ASTM D 638	%	5
Strain at Break	ASTM D 638	%	690
Elasticity Modulus (Secant 1%)	ASTM D 638	MPa	1480
Flexural Modulus (Secant 1%)	ASTM D 790	MPa	1520
Izod Impact Strength <sup>3</sup>	ASTM D 256/A	J/m	155
Heat Deflection Temperature (0.455 MPa)	ASTM D 648	°C	74
Vicat Softening Point (10 N)	ASTM D 1525	°C	127
ESCR (10% Igepal) <sup>2</sup>	ASTM D 1693	h	134
ESCR (100% Igepal) <sup>2</sup>	ASTM D 1693	h	>1000

<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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