



RECYCLED HIGH DENSITY POLYETHYLENE

VALTIS

HDB-5505-R-GR | Recycled Resin · Green

(CO)EXTRUSION BLOW MOLDING

SHEET (CO)EXTRUSION

GOOD STIFFNESS

DENSITY

0.945 – 0.955 g/cm³

23°C · ASTM D1505

MELT INDEX

0.40 – 0.42 g/10 min

MFR2 (2.16 kgf / 190°C) · ASTM D1238

ESCR

> 45 h

Condition B: 100% Igepal at 50°C, F50 · ASTM D1693

TENSILE AT YIELD

4,000 psi

2.0 in/min [50.8 mm/min], Type IV
compression molded plaque · ASTM D638

01 PRODUCT DESCRIPTION

Recycled high density polyethylene in green for (co)extrusion blow molding and extrusion. Higher stress-crack resistance (ESCR > 45 h) for durable containers and parts.

CHARACTERISTICS

Good Stiffness

Good Processability

APPLICATIONS

Gallon Jugs

20 L Square Containers

Household and Industrial Chemical Containers

02 GENERAL

PROCESSING METHODS

(Co)Extrusion Blow Molding

Sheet (Co)Extrusion

COLOR

Green

03 TECHNICAL PROPERTIES

SECTION	PROPERTY / CONDITION	TEST METHOD	ENGLISH VALUE	SI VALUE
RESIN	Melt Flow Rate, MFR2 (2.16 kgf / 190°C)	ASTM D1238	0.40 – 0.42 g/10 min	0.40 – 0.42 g/10 min
	Density (23°C)	ASTM D1505	0.945 – 0.955 g/cm ³	0.945 – 0.955 g/cm ³
	Antioxidant Package	---	Yes	Yes
MECHANICAL	Tensile Strength at Yield (2.0 in/min [50.8 mm/min], Type IV compression molded plaque)	ASTM D638	4,000 psi	28 MPa
	Tensile Elongation at Break (2.0 in/min [50.8 mm/min], Type IV compression molded plaque)	ASTM D638	600%	600%
	Flexural Modulus (Initial Tangent - 0.051 in/min [1.3 mm/min])	ASTM D790A	200,000 psi	1,379 MPa
OTHER	Environmental Stress Crack Resistance - ESCR (Condition B: 100% Igepal at 50°C, F50)	ASTM D1693	> 45 h	> 45 h



DATA NOTICE

The data presented here is true and accurate to the best of our knowledge. Likewise, the values are nominal and should not be taken as minimum or maximum specifications. No warranty, express or implied, is made regarding resin performance. The customer must validate these properties according to his own evaluations on his machine and in his laboratory.



REGULATORY NOTES

This grade is produced from recycled polyethylene. It is not intended for food-contact, pharmaceutical or medical applications. Confirm the regulatory requirements of the intended application with FIN-X before use.

Values are typical and are not to be construed as specifications. Validate performance for the intended application before final material selection.

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