RECYCLED HIGH DENSITY POLYETHYLENE

VALTIS

HDB-5505-R-BK | Recycled Resin · Black

(CO)EXTRUSION BLOW MOLDING · SHEET (CO)EXTRUSION · GOOD STIFFNESS

DENSITY	MELT INDEX	ESCR	TENSILE AT YIELD
0.945 – 0.955 g/cm³	**0.40 – 0.42** g/10 min	**> 45** h	**4,000** psi
23°C · ASTM D1505	MFR2 (2.16 kgf / 190°C) · ASTM D1238	Condition B: 100% Igepal at 50°C, F50 · ASTM D1693	2.0 in/min [50.8 mm/min], Type IV compression molded plaque · ASTM D638

01 PRODUCT DESCRIPTION

Recycled high density polyethylene in black 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

Corrugated Pipe · Tricycle Tires · Household and Industrial Chemical Containers

02 GENERAL

PROCESSING METHODS	(Co)Extrusion Blow Molding · Sheet (Co)Extrusion
COLOR	Black

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/cm³**	**0.945 – 0.955 g/cm³**
	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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