TECHNICAL DATA SHEET

TRICOLENE HDB5954

High Density Polyethylene

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TRICON
ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of HDPE is an Ultra High Molecular Weigth Copolymer of ethylene and 1-butene

PROCESSING METHODS	CHARACTERISTICS	APPLICATIONS
(Co)Extrusion Blow Molding	High ESCR	Drums
Sheet (Co)Extrusion	High Impact Strength	Thermoformed Parts
	Good Stiffness	

RESIN PROPERTIES	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Melt Flow Rate 2.16 kgf/190 °C MFR_2	ASTM D1238	**< 0.1** g/10 min	**< 0.1** g/10 min
Melt Flow Rate 21.60 kgf/190 °C HLMFR	ASTM D1238	**5.1** g/10 min	**5.1** g/10 min
Density 23 °C	ASTM D1505	**0.954** g/cm^3	**0.954** g/cm^3
Antioxidant Package	---	**Yes**	**Yes**

MECHANICAL PROPERTIES	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Tensile Strenght at Yield 2,0 in/min (50,8 mm/min), Type IV compression molded plaque	ASTM D638	**4,000** psi	**28** MPa
Flexural Modulus Secant at 1 % of Elongation - 0,051 in/min (1,3 mm/min)	ASTM D790A	**140,000** psi	**966** MPa
Charpy Notched Impact Strength	ISO 179/1eA		
23 °C, 1/8 in (3,2 mm)		**15.0** ft-lbf/in^2	**32** kJ/m^2
-20 °C, 1/8 in (3,2 mm)		**12.0** ft-lbf/in^2	**25** kJ/m^2
Shore Hardness Escala D, 15 s	ASTM D2240	**61.0**	**61.0**

OTHER PROPERTIES	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Vicat Softennig Temperature - VST 10 N (1 kg), 50 °C/h	ASTM D1525	**261** °F	**127** °C
Heat Deflection Temperature - HDT 66 psi (0,455 MPa), Method A	ASTM D648	**151** °F	**66** °C
Environmental Stress Crack Resistance - ESCR Condition B: 100 % Igepal at 50 °C, F50	ASTM D1693	**1,000** h	**1,000** h

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 COMPLIANCE

This resin complies with the following FDA regulation: 21 CFR 177.1520: Olefinic Polymers. This regulation describes polyolefin resins that can be used safely for food packaging and preservation at low temperatures and at ambient temperatures. This resin is not designed for use in medical applications and should not be used in such applications.

RIGID

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