

TECHNICAL DATA SHEET

TRICOLENE[®]

MDHR4939U

Medium Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of pelletized MDPE is a copolymer of ethylene and 1-hexene. This reference contains UV Stabilizer.

PROCESSING METHODS	CHARACTERISTICS		APPLICATIONS
Rotomolding	Low Temperature Impact Strength Excellent ESCR Long Term UV stabilization		Drums, Intermediate Bulk Containers (IBC) Municipal Trash Containers Playground Equipment
RESIN PROPERTIES	TEST METHOD	VALUES, English Units	VALUES, International Units
Melt Flow Rate 2.16 kgf/190 °C MFR ₂	ASTM D1238	3.60 g/10 min	3.60 g/10 min
Density 23 °C	ASTM D1505	0.939 g/cm ³	0.939 g/cm ³
Antioxidant Package	---	Yes	Yes
UV Stabilizer	---	Yes	Yes
MECHANICAL PROPERTIES	TEST METHOD	VALUES, English Units	VALUES, International Units
Tensile Strength at Yield 2,0 in/min (50,8 mm/min), Type IV compression molded plaque	ASTM D638	2,900 psi	20.0 MPa
Flexural Modulus Secant at 1 % of Elongation - 0,051 in/min (1,3 mm/min)	ASTM D790A	119,000 psi	820.7 MPa
Low Temperature Impact Strength 0.125" (3.2 mm) / -40 °F (- 40 °C) 0.250" (6.3 mm) / - 40 °F (- 40 °C)	ARM Test	54 ft-lbf 160 ft-lbf	73 J 217 J
OTHER PROPERTIES	TEST METHOD	VALUES, English Units	VALUES, International Units
Heat Deflection Temperature - HDT 66 psi (0,455 MPa), Method A	ASTM D648	136 °F	58 °C
Environmental Stress Crack Resistance - ESCR Condition B: 100 % Igepal at 50 °C, F50	ASTM D1693	>1000 h/F50	>1000 h/F50

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.

