

TECHNICAL DATA SHEET

TRICOLENE® MDHR5935U

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			Excellent Processability 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	5.00 g/10 min	5.00 g/10 min	
Density	23 °C		ASTM D1505	0.935 g/cm ³	0.935 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	2,700 psi	18.6 MPa	
Flexural Modulus Secant at 1 % of Elongation - 0,051 in/min (1,3 mm/min)			ASTM D790A	105,000 psi	724.1 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	55 ft-lbf 155 ft-lbf	75 J 210 J	
OTHER PROPERTIES			TEST METHOD	VALUES, English Units	VALUES, International Units	
Heat Deflection Temperature - HDT 66 psi (0,455 MPa), Method A			ASTM D648	131 °F	55 °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.

