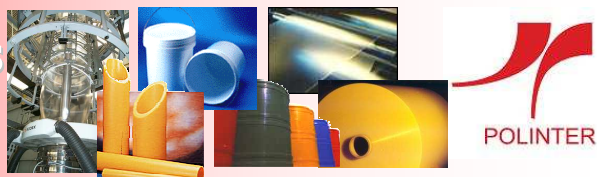


# Venelene® Polyethylenes Technical Data Sheet



## Venelene® 8504UV8D MDPE for Rotational Moulding

### Main Features:

- ◆ Good processability, rigidity, Impact resistance.
- ◆ Moderate ESCR.
- ◆ This product contains UV and antioxidant additives for outdoor long service life.

### Common Applications:

- ◆ Large capacity tanks and heavy-duty industrial parts.

### Processing Conditions:

- ◆ Oven temperature: 290 – 350 °C.

Properties	ASTM <sup>(1)</sup>	Units	Typical Value <sup>(2)</sup>
Melt Flow Index (190°C / 2.16 Kg.)	D 1238	g/10 min	1.90
Density	D 792	g/cm <sup>3</sup>	0.9380
Designated NORVEN: (Thermoplastic) Covenin (3581)-PE, RL, 38-E022			
General properties <sup>(3)</sup>			
Flexural modulus	D 790	MPa	310
Tensile Strength at yield	D 638	MPa	22
Tensile Strength at break	D 638	MPa	30
Elongation at break	D 638	%	> 1500
Toughness	D 638	MPa	380
Impact resistance Gardner	D 5420	KJ/m	9
VICAT Temperature	D 1525	°C	126
ESCR <sup>(4)</sup> ( F 50 / 10% Igepal)	D 1693	h	24
ESCR <sup>(4)</sup> ( F 50 / 100% Igepal)	D 1693	h	140
Additives:			
Antioxidants		High	
Processing aid Additives		N/A	
UV Stabilizers		High	

(1) COVENIN - ASTM standards equivalency: Density Covenin 461-96; Melt Flow Index Covenin 1152-93; Tensile Mechanical Properties Covenin 1357-79, VICAT temperature 479-77.

(2) Reported typical values are obtained from laboratory test. Values should be used as a commercial guide, not as specification data.

(3) The properties were evaluated under test tube molded by compression under the next conditions: Molding temperature 190°C; Molding pressure 180 KN; Molding time: 11 min; cooling time 7 min. Both the mechanical properties and the ESCR depend on the processing conditions.

(4) ESCR: Environmental Stress Cracking Resistance.

**User Advice:** The information provided, to the best knowledge at the time of the publication, is true and accurate. However, POLIOLEFINAS INTERNACIONALES disclaim any liability for the consequences derived from the information uses.

This product meets Venezuelan Sanitary Ministry and FDA requirements for food contact, including cooking applications.