



## TECHNICAL DATA SHEET

# HYPERENE HD-613

### Hexene Copolymer HDPE Rotational Moulding Powder

#### PRODUCT DESCRIPTION

Hyprene HD-613 is a specially formulated Hexene Comonomer based High Density Polyethylene designed for demanding applications like Automotive Fuel Tanks, Hydrogen Liner Tanks, Chemical Tanks & Underground Tank Systems. The grade offers exceptional balance of mouldability, high density and low temperature impact performance and also meets the international standards for Diesel Fuel Tanks.

PROPERTY	TEST METHOD <sup>1</sup>	UNIT	TYPICAL VALUE <sup>2</sup>
Density	ASTM D 1505	g/cm <sup>3</sup>	0.946
Melt Flow Index (MFI) <sup>3</sup>	ASTM D 1238	g/10 min	4.0
Tensile Strength Yield	ASTM D 790	MPa	22.4
Tensile Modulus	ASTM D 790	MPa	1337
Elongation at Break <sup>4</sup>	ASTM D 790	%	94
Flexural Modulus <sup>5</sup>	ASTM D 790	MPa	869
Impact Strength (4.0 mm) <sup>6</sup>	ARM	ft.lbs	89
ESCR F <sub>50</sub> <sup>7</sup> (10% IGEPAL)	ASTM D 1693	h (F50)	140
ESCR F <sub>50</sub> <sup>7</sup> (100% IGEPAL)	ASTM D 1693	h (F50)	864

DENSITY 0.946

MELT INDEX 4.0

#### KEY FEATURES

Superior mechanical properties  
Improved dimensional stability  
Easy Processing

#### TYPICAL APPLICATIONS

Large Storage Tanks  
Underground tanks  
Septic Tanks  
Chemical Tanks  
Kayaks & Boats  
Boat Docks  
Solar Floats

<sup>1</sup> Properties designated have been determined using methods which are in accordance with the specified testing standards.

<sup>2</sup> Typical Values represent average laboratory values for the base resin and are intended as guides only, not as specifications.

<sup>3</sup> Condition 190°C/2.16 kg.

<sup>4</sup> ASTM Type 1, 50 mm per minute test speed, 4.0 mm thickness rotomoulded samples.

<sup>5</sup> 2% Secant using rotomoulded samples. (SPEED?)

<sup>6</sup> -40°C on rotomoulded samples.

<sup>7</sup> Condition A, 50°C, F50 values using rotomoulded specimens.

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