CHEVRON PHILLIPS SINGAPORE CHEMICALS (PRIVATE) LIMITED
CHEVRON PHILLIPS CHEMICALS ASIA PTE LTD

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MARLEX® POLYETHYLENE
Premium Extrusion and Rigid Packaging Resins

HIGH DENSITY POLYETHYLENE
TECHNICAL DATA SHEET

Marlex® HXM TR-571

This extra high molecular weight, hexene copolymer is tailored for large blow molded parts that require:

- **Good ESCR**
- **Outstanding impact resistance**
- **Outstanding creep resistance**
- **Excellent chemical resistance**

This resin meets these specifications:

- **FDA 21 CFR 177.1520**
- **ASTM D4976 – PE 235**
- **Listed in the Drug Master File**

Typical blow molded applications for HXM TR-571 include:

- **220 Liter L-ring drums**
- **Open top drums**
- **Industrial tanks**
- **Furniture**

NOMINAL PHYSICAL PROPERTIES (1)	TEST METHOD	UNIT	VALUE
Density	ASTM D1505	g/cm^3	0.953
Melt Index, Condition 190/2.16	ASTM D1238	g/10 min	0.02
Condition 190/5.0			0.08
Condition 190/21.6			2.5
Tensile Strength at Yield, 50 mm/min, Type IV bar	ASTM D638	MPa	27
Elongation at Break, 50 mm/min, Type IV bar	ASTM D638	%	>600
Flexural Modulus, Tangent - 16:1 span:depth, 12.7 mm/min	ASTM D790	MPa	1300
ESCR, Condition B (100% Igepal), F_{50}	ASTM D1693	h	300
Vicat Softening Temperature, Loading 1, Rate A	ASTM D1525	ºC	127
Brittleness Temperature, Type A clamp, Type I specimen	ASTM D746	ºC	<-75

(1) The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded. The physical properties were determined on compression molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

Another quality product from
Chevron Phillips Singapore Chemicals (Private) Limited