

# Marlex<sup>®</sup> HHM TR-144

This high molecular weight hexene copolymer is designed for film applications. It has been formulated to provide....

- Good processability
- Good toughness and durability
- Good blending characteristics with HDPE HMW film resin

Typical applications include:

- Multi – wall liners
- T-shirt & shopping bags
- Trash bags

This resin meets these specifications:

- FDA Regulation 21CFR 177.1520. Suitable for food packaging.

| Nominal Physical Properties *        | ASTM  | Unit              | Value              |
|--------------------------------------|-------|-------------------|--------------------|
| Density                              | D1505 | g/cm <sup>3</sup> | 0.946              |
| Melt Index, Condition 190°C/ 2.16 kg | D1238 | g/10min           | 0.18               |
| HLMI, Condition 190°C/21.6 kg        | D1238 | g/10min           | 15                 |
| Flexural Modulus, Tangent            | D790  | MPa               | 1150               |
| Brittleness Temperature              | D746  | °C                | <-75               |
| <u>Typical Film Properties**</u>     |       |                   |                    |
| Dart Drop (66cm)                     | D1709 | g                 | 90                 |
| Spencer Impact Strength              | D3420 | J                 | 0.35               |
| Tensile Yield Strength, 50 mm/min    | D882  | MPa               | MD: 24<br>TD: 26   |
| Elongation at Break, 50 mm/min       | D882  | %                 | MD: 480<br>TD: 640 |
| Elmendorf Tear Strength              | D1922 | g                 | MD: 19<br>TD: 270  |

\* 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.

\*\*Based on 0.025 mm film produced at 4:1 blow-up ratio.

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Qatar Chemical Company Ltd does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as any international laws which may be encountered in the use thereof. Such questions should be investigated by the user.

For more information:

Qatar Chemical Company LTD (Q-Chem)  
P.O. Box 24646  
Doha - Qatar  
Tel: (+974) 4847110  
(+974) 4847111  
Email: marketing@qchem.com.qa

MSDS (+974) 4847110  
**OR**  
Visit our site  
www.qchem.com.qa

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