

Asterene HHM TR-144S

This high molecular weight, hexene copolymer is tailored for blown film applications that :

- Require toughness and durability
- Require good processability
- Require good blending characteristics with HDPE HMW resins

Typical applications for HHM TR-144S include:

- T-shirt bags
- Multi-wall liners
- Trash bags

This resin meets these specifications:

- FDA 21 CFR 177.1520(c) 3.2a. May be used in contact with all types of food at conditions of use B through H per Table 2 of 21 CFR 176.170(c).
- ASTM D4976 – PE 235
- All constituents of this resin are listed in the Commission Regulation (EU) No. 10/2011. Meets requirements of Commission Regulation (EU) No. 10/2011. Framework regulation (EC) No. 1935/2004, and Commission Regulation (EC) No. 2023/2006.

NOMINAL PHYSICAL PROPERTIES ⁽¹⁾	TEST METHOD	UNIT	VALUE
Density	ASTM D1505	g/cm ³	0.946
Melt Index, Condition 190/2.16	ASTM D1238	g/10 min	0.18
Condition 190/21.6			15
Flexural Modulus, Tangent - 16:1 span:depth, 12.7 mm/min	ASTM D790	MPa	1150
ESCR, Condition B (100% Igepal), F ₅₀	ASTM D1693	h	>1000
Brittleness Temperature, Type A clamp, Type I specimen	ASTM D746	°C	<-75
Typical Film Properties ⁽²⁾			
Dart Drop (66 cm)	ASTM D1709	g	90
Tensile Strength at Yield, 50 mm/min	ASTM D882	MPa	MD: 24 TD: 26
Elongation at Break, 50 mm/min	ASTM D882	%	MD: 480 TD: 640
Elmendorf Tear Strength	ASTM D1922	g	MD: 19 TD: 270

(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.

(2) 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. Aster Polymer Solutions Pte. 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.