

General Information

General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> Europe North America Pacific Rim South America
Test Standards Available	<ul style="list-style-type: none"> ASTM
Features	<ul style="list-style-type: none"> Copolymer Density, High ESCR, High (Stress Crack Resist.) Molecular Wt., High Processability, Good Stiffness, Good
Uses	<ul style="list-style-type: none"> Bottles Containers, Industrial Household Goods Personal Care Toys
Agency Ratings	<ul style="list-style-type: none"> ASTM D 4976-PE235 FDA 21 CFR 176.170(c) ¹ FDA 21 CFR 177.1520(c) 3.2a ²
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Blow Molding Compression Molding

ASTM and ISO Properties ³

Physical	Nominal Value Unit	Test Method
Density	0.951 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.3 g/10 min	ASTM D1238
Enviro. Stress Crack Res (Condition A, Compression Molded, F50, 100% Igepal)	50.0 hr	ASTM D1693
(Condition B, Compression Molded, F50, 100% Igepal)	50.0 hr	
Mechanical	Nominal Value Unit	Test Method
Tensile Strength @ Yield (Compression Molded) ⁴	3770 psi	ASTM D638
Tensile Elongation @ Brk (Compression Molded) ⁴	600 %	ASTM D638
Flexural Modulus (Compression Molded) ⁵	Tangent: 190000 psi	ASTM D790
Thermal	Nominal Value Unit	Test Method
Brittle Temperature	-103 °F	ASTM D746

Additional Properties

Agency rating CFR 176.170c applies to conditions B through H.

Notes

¹ When used unmodified for the manufacture of food contact articles, Marlex® HHM 5202BN will comply with Food Additive Regulations FDA 21 CFR 176.170(c) under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.

² When used unmodified for the manufacture of food contact articles, Marlex® HHM 5202BN will comply with Food Additive Regulations FDA 21 CFR 177.1520(c) 3.2a under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.

³ Typical properties: these are not to be construed as specifications.

⁴ Type IV, 2.0 in/min

⁵ 0.50 in/min

IDES - The Plastics Web™

800-788-4668 or 307-742-9227 | www.ides.com