Marlex® HXB TR-512

High Density (HMW) Polyethylene

Chevron Phillips Chemical Company LLC

Message:

Marlex® HXB TR-512 is a High Density (HMW) Polyethylene material. It is available in Latin America or North America for blow molding or extrusion.
Important attributes of Marlex® HXB TR-512 are:
Chemical Resistant
Creep Resistant
Eco-Friendly/Green
Food Contact Acceptable
Hexene Comonomer
Typical applications include:
Containers
Food Contact Applications
Tanks

General Information	
Features	Durable Food Contact Acceptable Good Chemical Resistance Good Creep Resistance Good Impact Resistance Hexene Comonomer High ESCR (Stress Crack Resist.) Med.-Wide Molecular Weight Distrib. Recyclable Material Ultra High Molecular Weight
Uses	Drums Industrial Tanks
Agency Ratings	ASTM D 4976-PE235 FDA 21 CFR 177.1520(c) 3.2a
Forms	Pellets
Processing Method	Blow Molding Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	5.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693B

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	60		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, Compression Molded)	29.0	MPa	ASTM D638
Tensile Elongation [2] (Break, Compression Molded)	800	%	ASTM D638
Flexural Modulus - Tangent [3] (Compression Molded)	1340	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength [4] (Compression Molded)	450	kJ/m^2	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	74.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	126	°C	ASTM D1525 [5]

NOTE	
1.	Type IV, 51 mm/min
2.	Type IV, 51 mm/min
3.	13 mm/min
4.	Type S
5.	Rate A (50°C/h), Loading 1 (10 N)

Recommended distributors for this material

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WECHAT