Marlex® HHM TR-305

Medium Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

Marlex® HHM TR-305 is a Medium Density Polyethylene material. It is available in Latin America or North America for extrusion.
Important attributes of Marlex® HHM TR-305 are:
Food Contact Acceptable
Good Processability
Hexene Comonomer
High ESCR (Stress Crack Resistant)
High Molecular Weight
Typical applications include:
Food Contact Applications
Hose/Tubing

General Information			
Features	Food Contact Acceptable Good Melt Strength Good Processability Hexene Comonomer High ESCR (Stress Crack Resist.) High Molecular Weight		
Uses	Tubing		
Agency Ratings	ASTM D 4976-PE225 FDA 21 CFR 177.1520(c) 3.2a 2		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.937	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.28	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
10% Igepal, Compression Molded, F50	> 2000	hr	ASTM D1693B
100% Igepal, Compression Molded, F50	> 2000	hr	ASTM D1693C
SP-NCTL	> 1.4	month	ASTM D5397
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)	19.0	MPa	ASTM D638

Tensile Elongation [2] (Break, Compression Molded)	750	%	ASTM D638
Flexural Modulus - Tangent [3] (Compression Molded)	790	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength [4] (Compression Molded)	420	kJ/m^2	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	57.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	117	°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