

Marlex® HMN TR-938

Medium Density Polyethylene
Chevron Phillips Chemical Company LLC

Message:

Marlex® HMN TR-938 is a Medium Density Polyethylene material. It is available in Latin America or North America for rotational molding. Important attributes of Marlex® HMN TR-938 are:

- Flame Rated
- Good UV Resistance
- Hexene Comonomer
- High ESCR (Stress Crack Resistant)
- Impact Resistant

Typical applications include:

- Automotive
- Containers
- Food Contact Applications
- Marine Applications
- Outdoor Applications

General Information			
UL YellowCard	E349283-100986350		
Additive	UV Stabilizer		
Features	Good Flow		
	Good Impact Resistance		
	Good UV Resistance		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
Uses	Industrial Containers		
	Marine Applications		
	Tanks		
Agency Ratings	AS/NZS 4020:2005		
	AS/NZS 4766		
	ASTM D 2565		
	ASTM D 4976-PE223		
	FDA 21 CFR 177.1520(c) 3.2a 3		
UL File Number	E54700		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238

Environmental Stress-Cracking Resistance			ASTM D1693A
10% Igepal, Compression Molded, F50	200	hr	
100% Igepal, Compression Molded, F50	> 1000	hr	
Outdoor Suitability	f1		UL 746C
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, 3.17 mm, Rotational Molded)	17.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.17 mm, Rotational Molded)	700	%	ASTM D638
Flexural Modulus ³			ASTM D790
2% Secant : 3.17 mm, Rotational Molded	660	MPa	
Tangent : 3.17 mm, Rotational Molded	820	MPa	
Impact	Nominal Value	Unit	Test Method
ARM Impact			
-40°C, 3.20 mm	95.0	J	
-40°C, 6.35 mm	237	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.17 mm, Rotational Molded	62.0	°C	
1.8 MPa, Unannealed, 3.17 mm, Rotational Molded	42.0	°C	
Brittleness Temperature	-75.0	°C	ASTM D746A
Vicat Softening Temperature	117	°C	ASTM D1525 ⁴
Peak Melting Temperature	128	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	113	°C	ASTM D3418
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		
3.	13 mm/min		
4.	Rate A (50°C/h), Loading 1 (10 N)		

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