MARPOL® LL4M 833

Marco Polo International, LLC - Linear Low Density Polyethylene

Sunday, July 23, 2023

General Information

Product Description

This resin exhibits an excellent balance of processability, stiffness, impact strength and ESCR.

Recommended Applications:
General purpose and injection molding applications

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Low Density		
Uses	• General Purpose		
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.1a		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm³	ASTM D4883
Melt Mass-Flow Rate (190°C/2.16 kg)	35	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	11.0	MPa	ASTM D638
Tensile Strength (Break)	7.58	MPa	ASTM D638
Tensile Elongation (Yield)	2.0	%	ASTM D638
Tensile Elongation (Break)	75	%	ASTM D638
Flexural Modulus - 2% Secant	393	MPa	ASTM D790B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	51		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	45.0	°C	
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	92.2	°C	ASTM D1525

Notes

[1] Typical properties: these are not to be construed as specifications.