

MARPOL® LL6R 805

Marco Polo International, LLC - Linear Low Density Polyethylene

Monday, December 11, 2023

General Information						
Product Description						
Recommended Applications: Pla	ayground equipment, toys, agricultural storage tar	iks, medium tanks, drums and cher	mical storage tanks.			
General						
Material Status	Commercial: Active					
Availability	Africa & Middle East	• Europe	North America			
	 Asia Pacific 	 Latin America 	• North America			
Features	Food Contact Acceptable	Low Density				
Uses	Agricultural Tanks	Industrial Tanks	Torra			
	• Drums	 Tanks 	• Toys			
Agency Ratings	• FDA 21 CFR 177.1520					

ASTM & ISO Properties ¹					
Physical	Nominal Value	Unit	Test Method		
Density	0.935	g/cm³	ASTM D1505		
Melt Mass-Flow Rate (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238		
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693		
10% Igepal, Compression Molded, F50	300	hr			
100% Igepal, Compression Molded, F50	> 1000	hr			
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength ² (Yield)	18.6	MPa	ASTM D638		
Tensile Elongation ² (Yield)	12	%	ASTM D638		
Flexural Modulus ³	689	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Impact Strength (-40°C, 3.18 mm)	61	J	ARM		
Thermal	Nominal Value	Unit	Test Method		
Deflection Temperature Under Load			ASTM D648		
0.45 MPa, Unannealed	50.0	°C			

Notes



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

² 50 mm/min

³ 1.3 mm/min