

Marlex® 4538A

Low Density Polyethylene

Chevron Phillips Chemical Company LLC

Message:

Marlex® 4538A is a Low Density Polyethylene material. It is available in Latin America or North America for blow molding or extrusion.

Important attributes of Marlex® 4538A are:

Clarity

Food Contact Acceptable

Good Flexibility

Homopolymer

Impact Resistant

Typical applications include:

Additive/Masterbatch

Adhesives/Tapes

Bottles

Consumer Goods

Food Contact Applications

General Information			
Features	Autoclavable		
	Food Contact Acceptable		
	Good Flexibility		
	Good Impact Resistance		
	Homopolymer		
	Medium Clarity		
	Medium Gloss		
Uses	Adhesives		
	Blending		
	Bottles		
	Pharmaceuticals		
	Simulated Wood Parts		
	Toys		
Agency Ratings	ASTM D 4976-PE113		
	FDA 21 CFR 177.1520(c) 2.2		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ASTM D1505

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	17.0	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	600	%	ASTM D638
Flexural Modulus - Tangent ³ (Compression Molded)	340	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746A

NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		
3.	13 mm/min		

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