

# Prixene® EM050R36

Linear Low Density Polyethylene  
POLYMAT

Message:

Prixene® EM050R36 is a resin Linear Medium Density Polyethylene Copolymer of ethylene-hexene that offers high performance and excellent processability with UV protector. Especially designed for items that will be manufactured by rotational molding. Typic applications of this product are in drums and agricultural storage containers, chemical and children's games.

The features presented are a good impact resistance, good tenacity, high ESCR, good rigidity and high UV resistance.

The product form is in pellets, LLDPE for rotational molding. The material complies with FDA regulation title 21.CFR177.1520 (. C) 3.1 (a) and 3.2a.

General Information			
Additive	UV Stabilizer		
Features	Copolymer		
	Good Impact Resistance		
	Good Processability		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Rigidity		
Uses	Agricultural Applications		
	Containers		
	Drums		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal)	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	17.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	16	%	ASTM D638
Flexural Modulus - 1% Secant	731	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	60.0	°C	ASTM D648

Vicat Softening Temperature	118	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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#### Recommended distributors for this material

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