

# SABIC® MDPE R40039E

Medium Density Polyethylene

SABIC Americas, Inc.

## Message:

### Product Description

R40039E resin is Medium Density Polyethylene grade designed to provide excellent mechanical properties with high rigidity, toughness, gloss and low warpage. R40039E is UV stabilized and can be used for outdoor applications.

### Typical Applications

Rotational molding of large industrial and agricultural tanks, trash containers and chemical shipping drums.

General Information			
Additive	UV stabilizer		
Features	Low warpage		
	Rigidity, high		
	Highlight		
	Good UV resistance		
	Good chemical resistance		
	Good toughness		
	Compliance of Food Exposure		
	Medium density		
Uses	Industrial container		
	Agricultural water tank		
	Container		
	Outdoor application		
Processing Method	rotomolding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Injection Molding, F50)	> 150	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	69		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, injection molding	18.0	MPa	ASTM D638
Fracture, injection molding	19.0	MPa	ASTM D638

Tensile Elongation (Break, Injection Molded)	580	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	480	MPa	ASTM D790
Flexural Strength (Injection Molded)	15.0	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	119	°C	ASTM D1525
Additional Information			
Processing Conditions:Oven temperature: 315°C (600°F)			

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#### Recommended distributors for this material

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