

SABIC® LLDPE R40039EE

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE R40039EE is a medium density polyethylene (MDPE) copolymer. It is typically used for its good stress crack resistance, rigidity, gloss and low warpage. The resin contains UV-stabilizer. It is recommended that SABIC® LLDPE R40039E is grinded before use in rotational moulding applications. Typical applications.

Because of the good processing performance and physical properties, SABIC® LLDPE R40039EE is typically used for the rotational moulding of large industrial and agricultural tanks, trash containers and chemical shipping drums. Due to the good mechanical properties and low warpage this product is typically used for injection moulding of screw closures, caps and housewares. The UV-stabilization provides good protection for the final product. This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Additive	UV Stabilizer		
Features	Copolymer		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Gloss		
	High Rigidity		
	Low Warpage		
	Medium Density		
Uses	Agricultural Tanks		
	Caps		
	Closures		
	Drums		
	Household Goods		
	Industrial Tanks		
	Waste Containers		
Processing Method	Injection Molding		
	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.937	g/cm ³	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 CO-630, Compression Molded, F50)	> 150	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	69		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Compression Molded)	600	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, Compression Molded	18.0	MPa	
Break, Compression Molded	19.0	MPa	
Tensile Elongation (Break, Compression Molded)	500	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	710	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	117	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 to 240	°C	

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