

SABIC® LLDPE R50035EE

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE R50035EE is a LLDPE copolymer that typically provides good stress crack resistance, rigidity, toughness, gloss and very low warpage. The resin contains UV stabilizer. It is recommended that SABIC® LLDPE R50035EE is grinded before use in rotational moulding applications.

Typical Applications.

SABIC® LLDPE R50035EE is typically used for rotational moulding of large industrial and agricultural tanks, trash containers and chemical shipping drums. Because of its good mechanical properties and low warpage, it is typically used for injection moulding of screw closures, caps and housewares. SABIC® LLDPE R50035EE is UV stabilised; which 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 Toughness		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Gloss		
	High Rigidity		
	Low Density		
	Low Warpage		
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	0.933	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	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)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	16.0	MPa	
Break, Compression Molded	17.0	MPa	
Tensile Elongation (Break, Compression Molded)	590	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	420	MPa	ASTM D790
Flexural Strength (Compression Molded)	13.0	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	114	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 to 240	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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