

SABIC® LLDPE R50035 Series

Linear Low Density Polyethylene

SABIC Americas, Inc.

Message:

Product Description

R50035 series resins are Linear Low Density Polyethylene grades designed to provide excellent stress crack resistance, mechanical properties with high rigidity, toughness, gloss and low warpage.

R50035 Series includes following grades:

R50035: Non UV stabilized, Pellets

R50035E: UV stabilized, Pellets

RG50035: Non UV stabilized, Powder

Typical Applications

Rotational molding of large industrial and agricultural tanks, trash containers and chemical shipping drums. They are also suitable for injection molding applications like caps, closures and housewares. RG50035 is suitable for producing compounds & masterbatches.

General Information			
Additive	UV Stabilizer 2		
Features	Low warpage		
	Rigidity, high		
	High ESCR (Stress Cracking Resistance)		
	Highlight		
	Good chemical resistance		
Uses	Good toughness		
	Shield		
	Household goods		
	Agricultural application		
Forms	Shell		
	Powder 3		
Processing Method	Particle 4		
	rotomolding		
Physical	Injection molding		
	Nominal Value	Unit	Test Method
	Density	0.935	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, Injection Molding, F50)	> 150		
	hr ASTM D1693B		
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	66		
	ASTM D2240		

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Injection Molded)	420	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, injection molding	16.0	MPa	ASTM D638
Fracture, injection molding	17.0	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	590	%	ASTM D638
Flexural Strength (Injection 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
Additional Information			
Processing Conditions:Oven temperature: 315°C (600°F)			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 - 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

