

SABIC® LLDPE R50035S

Medium Density Polyethylene
Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE R50035S is a medium density polyethylene product. It can be processed by rotational molding and is available in Europe.
Features include:
high gloss
High resistance to environmental stress fracture (ESCR)
Copolymer
Hard
anti-warping

General Information			
Additive	UV stabilizer		
Features	Low warpage		
	Rigidity, high		
	High ESCR (Stress Cracking Resistance)		
	Highlight		
	Copolymer		
	Good toughness		
	Compliance of Food Exposure		
Forms	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	300	hr	ASTM D1693A
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)	500	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, molding	18.0	MPa	ASTM D638
Fracture, molding	11.5	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	700	%	ASTM D638
Flexural Modulus (Compression Molded)	724	MPa	ASTM D790
Flexural Strength (Compression Molded)	19.3	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method

Brittleness Temperature	-75.0	°C	ASTM D746
Vicat Softening Temperature	115	°C	ASTM D1525

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