

SABIC® LLDPE R50035 Series

Linear Low Density Polyethylene for Rotational Molding & Compounding

PRODUCT DESCRIPTION:

SABIC® LLDPE R50035 series are Linear Low Density Polyethylene grades with balanced density and viscosity designed to provide excellent stress crack resistance, good mechanical properties with high rigidity and toughness with low warpage.

SABIC® LLDPE R50035 Series includes the following grades:

R50035: Non-UV stabilized in pellet form R50035E: AO and UV stabilized in pellet form RG50035: Non-UV stabilized reactor powder grade

TYPICAL APPLICATIONS:

Rotational molding of water tanks, industrial and agricultural tanks and containers, general purpose rotomolding articles where easy processing is required. RG50035 is typically suitable as carrier resin for producing compounds and masterbatches.

TYPICAL PROPERTY VALUES:

	_	
,		D 1238
rg/m³	935	D 1505
л Ра	16	D 638
Л Ра	17	D 638
6	590	D 638
/IPa	420	D 790
/IPa	13	D 790
	66	D 2240
rs	>150	D 1693B
С	114	D 1525
С	< -75	D 746
	g/10 min. cg/m³ MPa MPa MPa MPa MPa MPa MPa MPa MPa MC C C	MPa 16 MPa 17 6 590 MPa 420 MPa 13 66 ors >150

⁽¹⁾ Typical values; not to be construed as specification limits

PROCESSING CONDITIONS

Typical processing conditions for SABIC® LLDPE R50035 and R50035E are:

Oven temperature: 315°C (600°F)

Molding cycles vary with mold composition and its thickness, oven temperature and wall thickness of part being produced. Venting of the mold is recommended.

Processing temperature for extrusion machines for compounding: 200-240°C

⁽²⁾ Based on injection molded specimens