

TECHNICAL DATASHEET

LLDPE R50035E



PRODUCT DESCRIPTION

LLDPE R50035E is a LLDPE copolymer that is designed to provide excellent stress crack resistance, excellent mechanical properties with high rigidity, toughness, gloss and very low warpage. The resin contains UV stabilizer. It is recommended that LLDPE R50035E is grinded before use in rotational moulding applications..

TRPICAL APPLICATION

LLDPE R50035E is desinged for rotational moulding of large industrial and agricultural tanks, trash containers and chemical shipping drums. Its excellent mechanical properties and low warpage makes it suitable for injection moulding applications such as screw closures, caps and housewares. LLDPE R50035E is UV stabilised; that provides excellent protection for the final product.

TYPICAL DATA

Properties	Units SI	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 190 °C and 2.16 kg	g/10 min	5.0	ASTM D 1238
Density	kg/m ³	935	ASTM D 1505
Mechanical properties			
Tensile test			ASTM D 638
stress at yield	MPa	16	
stress at break	MPa	17	
strain at break	%	590	
secant modulus at 1% elongation	MPa	420	
Flexural test			ASTM D 790
Flexural strength	MPa	13	
Hardness Shore D	-	66	ASTM D 2240
ESCR (100% Igepal), F50	h	>150	ASTM D 1693B
Thermal properties			
Vicat softening temperature	°C	114	ASTM D 1525
Brittleness temperature	°C	<-75	ASTM D 746