

R50035 Series

LLDPE for Rotational Molding

R50035 Series LLDPE copolymer is designed to provide excellent stress crack resistance, excellent mechanical properties with high rigidity, toughness, gloss and very low warpage. The resin does not contain UV stabilizers and is not intended for outdoor applications as supplied. It is recommended that R50035 be ground before use in rotational molding applications.

NOTICE: The information and data contained herein are believed to be correct and given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any warranty of immunity against infringement.

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R50035 Series includes the following grades:

Grade	Form
R50035	Pellet
RG50035	Powder

Typical Applications

R50035 AND RG50035 are resins whose good processing performance and physical properties makes it suitable for the rotational molding of large industrial and agricultural tanks, trash containers and chemical shipping drums. Its excellent mechanical properties and low warpage makes it suitable for injection molding applications such as screw closures, caps and housewares.

Physical Properties	Unit	Value ⁽¹⁾	Test Method
Melt index	g/10 min.	5.0	D-1238
Density	g/cm ³	0.935	D-1505
Vicat softening point	°C	115	D-1525
Brittleness temperature	°C	< -75	D-746
Secant modulus @1%elongation	MPa	500	D-790
Tensile strength @yield	MPa	18	D-638
Tensile strength @break	MPa	11.5	D-638
Tensile elongation @break	%	700	D-638
Flexural strength	MPa	19.3	D-790
Flexural modulus	MPa	724	D-790
Hardness	-	69	D-2240
ESCR (100%Igepal), F ₅₀	Hrs.	>300	D-1693A

Test specimen is prepared from compression molded sheet made according to ASTM D-1928 Procedure C.

(1) Typical values should not be construed as specification limits.

Processing conditions

Oven temperature °C (°F) = 315 (600)

Typical processing temperature for injection molding machines: 210 - 240 °C

Food Regulation

Certificate is available on request.