

TECHNICAL DATA SHEET

rototech R34I38 (LLDPE) Linear Low Density Polyethylene Powder for Rotational Molding

DESCRIPTION

- rototech R34I38 is a reprocessed / recycled grade Low Density Linear Polyethylene Resin (LLDPE) in powder form. In designing rototech R34I38 we have cautiously selected quality recycled grade resins suitable for rotomoulding, making it just not sustainable but also cost effective too. rototech R34I38 is additivities with antioxidants which is must for any recycled grade and also comes pre-blended with UV stabilizers. rototech R34I38 is produced in black and also upon request in white, red, yellow & blue.

APPLICATIONS

- rototech R34I38 is suggested for the production of wide variety of roto molding applications that requires cost- effective solution without compromising on quality such as multi layered tank, road crash barriers, etc. rototech R34I38 is also suitable for applications that are static in nature and are not going to suffer too much physical stress during its life cycle such as off-shore flotation buoys, flower pots etc.

PROPERTIES

Resin and Powder Properties			
Typical Properties	Test Method	Unit	Typical Values*
Melt Flow Index (190 °C/2.16 Kg)	ASTM D1238	gm/10 min	3.8
Density (23 °C)	ASTM D1505	gm/cm ³	0.935
Dry Flow	ARM Standard	Secs	21-25
Powder Bulk Density	ASTM D1895 - 17	Kg/m ³	380 - 480
ESCR (F-50, 10% Igepal)	ASTM D1693	hours	250
Vicat Softening Point	ASTM D1525	°C	120
UV Stability (rating)	ASTM D2565 - 16	hours	8000 (UV8)

Product Properties at 195 °C PIAT (Oven Temp 300 °C)				
Typical Properties	Test Method	Unit	* Compression Molded Values	* Rotomolded Specimen Values
Tensile Strength at Yield	ASTM D638	MPa	16	14
Notched IZOD Impact Strength	ASTM D256	Kg.cm/cm	22	21
Elongation at Yield	ASTM D638	%	200	175
Flexural Modulus	ASTM D790	Kg/cm ³	6000	5500
Hardness	ASTM D2240	D	52	52

*Typical characteristics are not to be taken as specification.

*Test specimen for product properties is 2-3.2 mm thick.

Typical Values refer to the base resin (black). Median Granulometry is 50 mesh (350 microns) which goals more than 15% economy on process time.

STORAGE CONDITIONS

- Bags should be stored in dry/closed conditions at temperature below 50 °C.