

TECHNICAL DATA SHEET

RT - 3438

Linear Low Density Polyethylene Powder for Rotational Molding

DESCRIPTION

- RT - 3438** is a reprocessed / recycled grade Low Density Linear Polyethylene Resin (LLDPE) in powder form. In designing **RT - 3438** we have cautiously selected quality recycled grade resins suitable for rotomoulding, making it just not sustainable but also cost effective too. **RT - 3438** is additivated with antioxidants which is must for any recycled grade and also comes pre-blended with UV stabilizers. **RT - 3438** is produced in black and also upon request in white, red, yellow & blue.

APPLICATIONS

- RT - 3438** is suggested for the production of wide variety of rotomoulding applications that requires cost-effective solution without compromising on quality such as multi layered tank, road crash barriers, etc. **RT - 3438** 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 Moulded Values	* Rotomoulded 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.

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