

TECHNICAL DATA SHEET

SP-RP- 3438

Linear Low Density Polyethylene Powder for Rotational Molding

DESCRIPTION

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

APPLICATIONS

- **SP-RP-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. **SP-RP-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 | 4 – 4.8 |
| 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, 100% Igepal) | ASTM D1693 | hours | 250 |
| Vicat Softening Point | ASTM D1525 | °C | 120 |
| UV Stability (rating) | ASTM D2565 - 16 | hours | 4000 (UV4) |

| 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 | 15 |
| Notched IZOD Impact Strength | ASTM D256 | Kg.cm/cm | 22 | 20 |
| Elongation at Yield | ASTM D638 | % | 400 | 350 |
| Flexural Modulus | ASTM D790 | Kg/cm ³ | 6000 | 5500 |
| Hardness | ASTM D2240 | D | 56 | 56 |

*Typical characteristics are not to be taken as specification.

*Test specimen for product properties is 3.2 mm thick.

STORAGE CONDITIONS

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

