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Rotomolding LLDPE Resins

Technical Data Sheet

POWDERMIX LP-3940

Linear Low Density Polyethylene Powder for Rotational Molding

DESCRIPTION

POWDERMIX **LP-3940** is a Low Density Linear Polyethylene Resin (LLDPE) in powder, additivated with antioxidants and UV stabilizers. It is suitable for Rotational Molding applications. Items produced by POWDERMIX **LP-3940** have a very good balance between mechanical properties and ESCR resistance. **LP-3940** is produced in: natural, black. Upon request in terracotta, fire red, yellow, blue.

APPLICATIONS

Due to its combination of mechanical properties, ESCR resistance and fluidity, POWDERMIX **LP-3940** is suggested for the production of medium capacity containers and hardly shaped items, wine barrels, playgrounds, road barriers. It is NOT the right material for playground slides, solid waste tubes, small boats. Grades colored Black, Terracotta & Natural, are Food Approved.

PROPERTIES TYPICAL

| LP-3940 Resin Properties | Test Method | Typical Value |
|-------------------------------------|-------------|---------------|
| Density (gr/cm ³) | ASTM D 1505 | 0,939 |
| Melt Flow Index (MFI) | ASTM D 1238 | 3,5 |
| Melting Point (°C) | | 127 |
| Brittleness Point (°C) | ASTM D 746 | <-75 |
| Vicat Softening Temperature (°C) | ASTM D 1525 | 119 |
| Tensile Strength at Yield (Mpa) | ASTM D 638 | 18,0 |
| Tensile Strength at Break (Mpa) | ASTM D 638 | 19,0 |
| Elongation at Break (%) | ASTM D 638 | 580 |
| Flexural Modulus (Mpa) | ASTM D 790 | 480 |
| Izod Impact Strength at -30 °C | ASTM D 256 | 60 |
| Hardness Shore D | ASTM D 2240 | 69 |
| Environ. Stress Cracking Resistance | ASTM D 1693 | >150 |

Typical Values refer to the base resin (natural). Values are typical, depending from the lot of base resin production. Values refer to an injection molded plaque of 4 mm thickness. Values may differ in rotomolding production. Median Granulometry is 50 mesh (350 microns) which goals more than 15% economy on process time.