**Rototuff Polymers**
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## Datasheet – Rototuff™ RT3932UV

Rototuff™ RT3932UV is a Butene Co-polymer Linear Low Density Polyethylene (LLDPE) which provides a good balance of rigidity and toughness. Rototuff™ RT3932UV has been formulated to provide a UV20 level of protection for Australian conditions and our RT3932UV Tank Colours have been independently certified to the material requirements of AS/NZS4766:2020.

The base resin for RT3932UV complies with the Food and Drug Administration (FDA) Specifications according to U.S.FDA 21 Code of Federal Regulations part 177.1520 (c) (2.1) and (2.2) for articles coming into contact with food and AS4020 *Testing of products for use in contact with drinking water.*

| Properties[1] | Test Method | Value | Units |
|---|---|---|---|
| MFI (190 degC; 2.16kg) | ASTM D1238 | 3.2 | g/10min |
| Density | ASTM D1505 | 0.939 | g/cm$^3$ |
| Tensile @ Yield[2] | ASTM D638 | 21 | MPa |
| Tensile @ Break[2] | ASTM D638 | 28 | MPa |
| Elongation @ Break[2] | ASTM D638 | 1100 | % |
| Flexural Modulus[3] | ASTM D790 | 740 | MPa |
| ARM Impact (5.5mm, - 40°C) | ARM Method | 118 | ft.lbs |
| Hydrostatic Design Basis[4] | ASTM D2837 | 8.62 | MPa |
| UV Resistance[5] | AS/NZS4766 | UV20 | - |

[1] Base Resin Properties
[2] Crosshead Speed @ 50mm/min
[3] Crosshead Speed @ 1.3mm/min
[4] A Service Factor needs to be applied in accordance with AS/NZS4766.
[5] Greater than 50% retained tensile elongation after 20,000 hrs accelerated UV exposure.