

### Datasheet – Rototuff™ RT3650UV

Rototuff™ RT3650UV is a Butene Co-polymer Linear Low Density Polyethylene (LLDPE) which provides a broad moulding latitude with a good balance of stiffness, impact strength and toughness. Rototuff™ RT3650UV has good colour stability with good UV and Weather resistance.

The base resin for RT3650UV 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) and Commission Regulation (EU) 10/2011 for articles coming into contact with food.

| Properties <sup>1</sup>         | Test Method | Value | Units             |
|---------------------------------|-------------|-------|-------------------|
| MFI (190 °C; 2.16kg)            | ASTM D1238  | 5.0   | g/10min           |
| Density                         | ASTM D1505  | 0.935 | g/cm <sup>3</sup> |
| Tensile @ Yield <sup>2</sup>    | ASTM D638   | 17    | MPa               |
| Tensile @ Break <sup>2</sup>    | ASTM D638   | 24    | MPa               |
| Elongation @ Break <sup>2</sup> | ASTM D638   | 1000  | %                 |
| Flexural Modulus <sup>3</sup>   | ASTM D790   | 600   | MPa               |
| HDT @ 0.455MPa                  | ASTM D648   | 55    | °C                |
| UV Resistance <sup>4</sup>      | AS/NZS4766  | UV8   | -                 |

<sup>1</sup> Typical Base Resin Properties

<sup>2</sup> Crosshead Speed @ 50mm/min

<sup>3</sup> Crosshead Speed @ 1.3mm/min

<sup>4</sup> Greater than 50% retained tensile elongation after 8,000 hrs accelerated UV exposure.

Disclaimer: The information set out above is based on data provided by our suppliers and the values shown reflect those of the base resin only. The addition of pigments has a marginal effect on density dependent on colour and addition rates used. Data has been used in good faith and no responsibility can be accepted by us for its accuracy or for any claims or proceedings, (including direct or indirect consequences arising from any claims or proceedings) or any direct or indirect loss or damage arising from the accuracy, use of or reliance upon this information. To the extent permitted by law, all warranties, representations, conditions whether expressed or implied by law, trade custom or otherwise in respect of this information are also expressly excluded.