

Datasheet – Rototuff™ RT3830UV

Rototuff™ RT3830UV is a Hexene Co-polymer Linear Low Density Polyethylene (LLDPE) which provides a good balance of rigidity and toughness. Rototuff™ RT3830UV has been formulated to provide a UV20 level of protection for Australian conditions and our RT3830UV Tank Colours have been independently certified to the material requirements of AS/NZS4766:2020.

The base resin for RT3830UV 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	0.938	g/cm ³
Tensile @ Yield ²	ASTM D638	20	MPa
Tensile @ Break ²	ASTM D638	30	MPa
Elongation @ Break ²	ASTM D638	1000	%
Flexural Modulus ³	ASTM D790	750	MPa
ESCR ⁴	ASTM D1693	1000	Hours
UV Resistance ⁵	AS/NZS4766	UV20	-

¹ Base Resin Properties

² Crosshead Speed @ 50mm/min

³ Crosshead Speed @ 1.3mm/min

⁴ F50; 100% Igepal; Condition A

⁵ Greater than 50% retained tensile elongation after 20,000 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.