

Description

Rototuff™ RT711UV is a Linear Low Density Polyethylene resin (LLDPE) material providing a good balance of rigidity and toughness. It is available in a variety of colours and contains a proprietary UV stabilisation package specifically designed for harsh outdoor conditions as experienced in Australia.

Rototuff™ RT711UV Tank Colours have been independently certified to the material requirements of AS/NZS4766:2006.

The Rototuff™ RT711UV base resin has TUV approval to ECE Reg34 Part 1, Annex 5 for use in Diesel Storage applications.

Applications

Rototuff™ RT711UV has been primarily but not exclusively produced for chemical and water tanks.

Other typical applications like pool filters, kayaks etc may benefit where the Rototuff™, stiffness, toughness, process ability and UV protection ensuring a long service life is required.

1. Typical values, not to be construed as specifications.
2. At 50mm/min crosshead speed.
3. At 12.7mm/min crosshead speed.
4. Natural and Tank Colours.
5. A service factor must be applied in accordance with AS/NZS 4766.
6. Greater than 50% retained tensile elongation after 20,000 hrs accelerated UV exposure.
7. TUV approval is based on material requirements only. Design and performance of tanks produced need to be independently certified.



Major End Use ROTATIONAL MOULDING

Grade - RT711UV

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.

Properties ¹	Test Method	Value	Units
Melt Index (190°C/2.16kg)	ASTM D 1238	3.0	g /10 mins
Annealed Density	ASTM D 1505	0.938	g / cm ³
Melting Point	ASTM D 3418	128	Deg °C
Thermal Stability	AS/NZS 4766	Pass	-
Tensile Strength at Yeild ²	ASTM D 638	19.5	Mpa
Tensile Elongation @ Break ²	ASTM D 638	950	%
Flexural Modulus ³	ASTM D 790	800	Mpa
ESCR (F50 Condition A, 100% Igepal)	ASTM D 1693	> 1000	hrs
Contact with Drinking Water ⁴	AS/NZS 4020	Pass	-
Vicat Softening Point	ASTM D 1525	117	Deg °C
Hydrostatic Design Basis ⁵	ASTM D 2837	8.62	Mpa
UV Resistance ⁶	AS / NZS 4766	UV20	-
Diesel Resistance (TUV) ⁷	ECE R34	PASS	-