

Description

Rototuff™ RT705UV is a Linear Low Density Polyethylene resin (LLDPE) specifically designed and manufactured for enhanced processability, ESCR, and Chemical Resistance.

Rototuff™ RT705UV 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™ RT705UV is suited to applications where rigidity, good surface finish, toughness, processability and UV protection ensuring a long service life is required.

The Rototuff™ RT705UV base resin and the addition of colours comply with the Australian Standard for Plastic Materials for Food Contact Use, AS 2070-1999.

Applications

Rototuff™ RT705UV is a general purpose rotational molding grade, used in the production of items such as agricultural tanks and containers, recreational equipment, toys, and some water craft, etc

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.



Major End Use
ROTATIONAL MOULDING

Grade - RT705UV

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	5.0	g / 10 mins
Annealed Density	ASTM D 1505	0.935	g / cm ³
Melting Point	ASTM D 3418	127	Deg °C
Thermal Stability	AS/NZS 4766	Pass	-
Tensile Strength at Yield ²	ASTM D 638	17.5	Mpa
Tensile Elongation @ Break ²	ASTM D 638	>500	%
Flexural Modulus ³	ASTM D 790	700	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	6.89	Mpa
UV Resistance ⁶	AS / NZS 4766	UV20	



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