

### Description

**Rototuff™ RT705UV\*\*\*\***

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

Rototuff™ RT705UV has been fully formulated with a UV stabilisation package which provides extended performance in harsh outdoor conditions.

Rototuff™ RT705UV typical applications where the Rototuff™ 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 such items as agricultural tanks and containers, recreational equipment, toys, and some water craft, etc

1. Typical values – Data / results given as indication of typical material performance and under no circumstances to be interpreted as specifications
2. At 50mm / min crosshead speed.
3. At 12.7 mm/min crosshead speed
4. A service factor must be applied in accordance with AS/NZS 4766
5. More than 50% tensile elongation 8000 hrs of Xenon-Arc weatherometer
6. Testing and Certification is achieved with the assistance and support of internal and external third party accredited organizations
7. \*\*\*\* Indicates colour reference.

### Major End Use ROTATIONAL MOULDING

### Grade - RT705UV\*\*\*\* GENERAL COLOURS

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 it's 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. DH11.13

Properties	Test Method	Value	Units
Melt Index Cond E 190° x 2.16kg	ASTM D 1238	5.0	g /10 mins
Annealed Density	ASTM D 1505	0.935	g / cm <sup>3</sup>
Melting Point	ASTM D 3418	127	Deg °C
Thermal Stability	AS/NZS 4786	Pass	-
Tensile Strength at Yeild <sup>2</sup>	ASTM D 638	17.5	Mpa
Tensile Elongation @ Break <sup>2</sup>	ASTM D 638	>500	%
Flexural Modulus <sup>3</sup>	ASTM D 790	700	Mpa
ESCR F50 Condition a, 100% Igepal )	ASTM D 1693	> 1000	hrs
Contact with Drinking Water	AS/NZS 4030	Pass	-
Vicat Softening Point	ASTM D 1525	117	Deg °C
Hydrostatic Design Basis	ASTM D 2837	8.69 <sup>4</sup>	Mpa
UV Resistance <sup>5</sup>	AS / NZS 4766	20,000	Hrs



## MICROPELLETS

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