



RMPP375 NATURAL

RMPP375 Natural is a Polypropylene (PP) Compound specifically developed for rotational moulding to provide good light diffusion and translucency in lighting covers.

It also provides a bright clean surface for furniture adornments e.g. planters, vase's, lighting features, etc.

All ingredients used in the manufacture of this proprietary compound conform with the approved list of chemicals in U.S. 21 CFR F.D.A. Regulation Part 177.1520 Clause 3.1a.

Available as powder.

FEATURES:

- **A good balance of cleanness and translucent properties**
- **Good Temperature Resistance (dry & wet)**
- **Better Flexural modulus than LLDPE**
- **Rated > UV12**
- **Improved surface hardness and scratch resistance**

PROCESSING GUIDELINES:

- Oven temperature ~ 280⁰C to 300⁰C
- PIAT 220⁰C – 230⁰C
- Rotation similar to LMDPE

OBSERVATIONS:

- Lower shrinkage than LLDPE, typically 1.5%
- It has excellent processability
- The translucent surface highlight special effects when using coloured LED globes



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Properties	Conditions	Units	Nominal Values	Testing Methods
Physical				
Melt Flow Rate	230 ⁰ C/2.16kgs	g/10 min	9	ISO 1133
Density ²		g/cm ³	0.900	ISO 1183
Mechanical & Thermal				
Tensile stress ¹	At yield	MPa	21.5	ISO 527-2
Tensile strain ¹	% At yield	%	5	ISO 527-2
Tensile Modulus ¹		MPa	1000	ISO 527-2
Flexural Modulus ¹		MPa	1000	ASTM D790
ARM Impact on 3mm	23 Deg C	J/mm	13	ARM Method
ESCR ¹	2% Igepal *	Hours	> 1000	ASTM D1693
Shore D Hardness ¹			60	ASTM D2240
HDT ¹	0.455 MPa	Deg C	110	ISO 75-2 4mm Edgewise
HDT ¹	1.82 MPa	Deg C	58	
Poisson Ratio			.44	ISO 527-2

Notes: ¹ Roto moulded ² Compression moulded * Or equivalent

Important: The information contained in this document is of a general nature only and is intended to provide an indication of the potential properties and benefits of a particular polypropylene compound. The statistical and other information provided in this document has been determined in laboratory test conditions. Accordingly, there may be differences in performance in a production environment including having regard to the materials used. The information contained in this document should not be used as a sole basis for production or manufacturing purposes. Independent testing verification and independent professional advice should be obtained before making a decision to use any product or to apply any method or process. To the full extent permitted by law, PSD Rotoworx Pty Limited (ACN 166 016 244), Salee Colour Public Company Limited ("PSD Rotoworx/Salee Colour PLC") its related entities, their directors and employees: (i) give no warranty or representation that the information contained in this document is accurate and complete in every particular, and (ii) disclaim all liability for reliance on the information contained in this document.

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