



## RMPP375 NATURAL

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**RMPP375 Natural** is a Polypropylene (PP) Compound specifically developed for rotational molding 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 ~ 300<sup>0</sup>C (570<sup>0</sup>F) to achieve mold surface temperature > 470<sup>0</sup>F
- PIAT ~ 420<sup>0</sup>F
- Rotation ratio 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
<b>Physical</b>				
Melt Flow Rate	230 <sup>0</sup> C/2.16kgs	g/10 min	9	ASTM D1238
Density <sub>2</sub>		g/cm <sup>3</sup>	0.900	ASTM D1505
<b>Mechanical &amp; Thermal</b>				
Tensile stress <sub>1</sub>	At yield	PSI	3100	ASTM D638
Tensile strain <sub>1</sub>	% At yield	%	5	ASTM D638
Tensile Modulus <sub>1</sub>		PSI	145000	ASTM D638
Flexural Modulus <sub>1</sub>		PSI	145000	ASTM D790
ARM Impact on 1/8"	73 Deg F	ftlb	30	ARM Method
ESCR <sub>1</sub>	2% Igepal *	Hours	> 1000	ASTM D1693
Shore D Hardness <sub>1</sub>			60	ASTM D2240
HDT <sub>1</sub>	0.455 MPa	Deg C	110	ISO 75-2 4mm Edgewise
HDT <sub>1</sub>	1.82 MPa	Deg C	58	
Poisson Ratio			.44	ASTM E132

**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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