



RMPP141 BLACK

RMPP141 is a Polypropylene (PP) Compound specifically developed for rotational molding, available as ambient ground powder or pellets. UV stabilised Natural is also available.

RMPP141 has excellent moldability and its enhanced properties allow it to be used in demanding applications for which polyethylene is not the optimum polymer.

Complies with U.S. 21 CFR F.D.A. regulation Part 177.1520 clause (c)(1.1) and (d).

FEATURES:

- **An excellent balance of high stiffness & high impact**
- **Good Temperature Resistance (dry & wet)**
- **High FNCT / ESCR giving improved chemical resistance**
- **Excellent Creep Resistance**
- **Improved hardness and scratch resistance**

Properties	Conditions	Units	Nominal Values	Testing Methods
Physical				
Melt Flow Rate	230 ⁰ C/2.16kgs	g/10 min	11	ASTM D1238
Density		g/cm ³	0.900	ASTM D1505
Mechanical & Thermal				
Tensile stress ³	At yield (break) ²	psi	3,750	ASTM D638
Tensile strain ³	% At yield ²	%	8	ASTM D638
Tensile Modulus ³		psi	195,000	ASTM D638
Flexural Modulus ³		psi	145,000	ASTM D790
FNCT ¹ – 2% Ige *	– 5MPa-122 ⁰ F – 6MPa-122 ⁰ F	Hours Hours	>300 170	ISO16770 – 10x10mm x 1.6mm notch
ESCR	2% Ige *	Hours	> 1000	ASTM D1693
Shore D Hardness ¹			62	ASTM D2240
HDT ¹	66 PSI	Deg F	240 ⁰ F	ISO 75-2 4mm Edgewise
Charpy ³	73 ⁰ F 32 ⁰ F	Ftlb/in ² Ftlb/in ²	14 1.9	ASTM D6110
ARM Impact ²	73 ⁰ F ¼" thick	Ftlb	104	ARM Standard 15lb dart
ARM Impact ²	32 ⁰ F ¼" thick	Ftlb	70	ARM Standard 10lb dart

Notes: ¹ Compression molded ² Roto molded ³ Injection molded * 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) (“PSD Rotoworx”), 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.