

ENGINEERING DATA SHEET

DSM 3.2.61

ASMP

Ultrapolymers PP - UP321PP

1. Definition:

Ultrapolymers UP321PP powder is designed for high stiffness rotational moulding applications and is suitable for applications requiring high ESCR (Environmental Stress Cracking Resistance), low warpage and good processability. Ultrapolymers UP321PP is fully heat and UV stabilised resulting in good processing latitude, good colour retention and long-life expectancy.

2. General:

Polypropylene (PP) is the most versatile & cost effective of the polyolefin (wax-like feel) family.

Benefits:

- It has good impact strength, surface hardness, dimensional stability and excellent abrasion resistance.
- Polypropylene does not present stress cracking problems & is resistant to a wide variety of acids, alkalis and solvents.
- This grade is UV stabilized.
- PP doesn't melt below 160°C.

3. Advantages of Rotational Moulding:

A cost effective & quick method for producing large lightweight hollow components in small to medium quantities. The thermoplastic powder is dispensed in the mould which is bi-axially rotated inside an oven until the polymer melts and coats the mould cavity.

4. Typical Applications:

- Automotive.
- Technical Products.
- Hydraulic Oil Tanks.

5. Mechanical Properties:

These values are representative. For critical applications, refer to datasheet.

Mechanical Properties					
MATERIAL:	TENSILE STRENGTH:	YOUNGS MODULUS:	ELONGATION BREAK:	TENSILE MODULUS:	DENSITY:
UP321PP	24.2 Mpa	1010 Mpa	450%	1010 Mpa	0,9 g/cm ³

Website For More Information: <https://ultrapolymers.com/en/products/101326-ultrapolymers-pp-compounds-up-321-pp-powder>

6. Colours:

- Available in Natural and Black

7. Manufacturers Material Data Sheet:

Please see below attached PDF document of the material data sheet from Ultrapolymers Ltd.



Adobe Acrobat
Document

Issue	01	02	03	04	05	06	07	08
Date	31/10/2024							