

## SABIC PP 502P Polypropylene Homopolymer for Raffia Applications

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

Product Description: PP 502P is intended for producing low denier stretched tapes with the following features: Consistent processability Good processability at high line speeds Low water carry over Good mechanical properties Typical Applications: PP 502P can be used for producing woven bags, carpet backing and concrete reinforcements. Information provided by SABIC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-PP-502P-Polypropylene-Homopolymer-for-Raffia-Applications.php](http://www.lookpolymers.com/polymer_SABIC-PP-502P-Polypropylene-Homopolymer-for-Raffia-Applications.php)

| Physical Properties | Metric                                               | English                                              | Comments   |
|---------------------|------------------------------------------------------|------------------------------------------------------|------------|
| Density             | 0.905 g/cc                                           | 0.0327 lb/in <sup>3</sup>                            | ASTM D792  |
| Melt Flow           | 4.8 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 4.8 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | ASTM D1238 |

| Mechanical Properties       | Metric     | English        | Comments   |
|-----------------------------|------------|----------------|------------|
| Hardness, Rockwell R        | 102        | 102            | ASTM D785  |
| Tensile Strength, Yield     | 33.0 MPa   | 4790 psi       | ASTM D638  |
| Elongation at Yield         | 12 %       | 12 %           | ASTM D638  |
| Flexural Modulus, 1% Secant | 1450 MPa   | 210000 psi     | ASTM D790A |
| Izod Impact, Notched        | 0.320 J/cm | 0.599 ft-lb/in | ASTM D256  |

| Thermal Properties                          | Metric | English | Comments    |
|---------------------------------------------|--------|---------|-------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 100 °C | 212 °F  | ASTM D648   |
| Vicat Softening Point                       | 155 °C | 311 °F  | ASTM D1525B |

| Processing Properties  | Metric       | English      | Comments           |
|------------------------|--------------|--------------|--------------------|
| Processing Temperature | 235 - 250 °C | 455 - 482 °F | Barrel Temperature |

## Contact Songhan Plastic Technology Co.,Ltd.

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