

## Washington Penn Medium Impact Copolymer 20% Talc Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Talc Filler

## Material Notes:

Talc-filled polypropylene compounds have been tailored specifically to meet the requirements of each of the major automobile producers. Grades are available to meet FDA food and drug packaging requirements. These products have excellent mold detail and surface reproduction with fast set-up times. They are also available in an array of colors.Information provided by Washington Penn Plastic Co.

## Order this product through the following link: http://www.lookpolymers.com/polymer\_Washington-Penn-Medium-Impact-Copolymer-20-Talc-Filled.php

| Physical Properties | Metric    | English                   | Comments  |
|---------------------|-----------|---------------------------|-----------|
| Density             | 1.04 g/cc | 0.0376 lb/in <sup>3</sup> | ASTM D792 |
| Filler Content      | 20 %      | 20 %                      |           |

| Tensile Strength, Yield23.27 MPa3375 psiASTM D638Elongation at Break70 %ASTM D638Elongation at Yield8.5 %ASTM D638Flexural Modulus1.72 GPa250 ksi1% Secant; ASTM D790I cod Impact, Notched0.694 J/cm1.30 ft-lb/inASTM D256Gardner Impact7.23 J5.33 ft-lbASTM D5420I col Imperature 23.0°C1.31 ft-lbASTM D5420I comperature 23.0°C0 Temperature 73.4°FASTM D5420 | Mechanical Properties   | Metric                | English               | Comments             |  |
|---|-------------------------|-----------------------|-----------------------|----------------------|--|
| Elongation at Yield8.5 %ASTM D638Elongation at Yield8.5 %ASTM D638Flexural Modulus1.72 GPa250 ksi1% Secant; ASTM D790Izod Impact, Notched0.694 J/cm285 ksiTangent; ASTM D790Izod Impact0.694 J/cm1.30 ft-lb/inASTM D256Gardner Impact7.23 J5.33 ft-lbASTM D5420@Temperature -30.0 °C@Temperature -22.0 °F18.1 J13.3 ft-lb                                       | Tensile Strength, Yield | 23.27 MPa             | 3375 psi              | ASTM D638            |  |
| Flexural Modulus1.72 GPa250 ksi1% Secant; ASTM D790I.97 GPa285 ksiTangent; ASTM D790Izod Impact, Notched0.694 J/cm1.30 ft-lb/inASTM D256Gardner Impact7.23 J5.33 ft-lbASTM D5420@Temperature -30.0 °C@Temperature -22.0 °FASTM D542018.1 J13.3 ft-lbASTM D5420  | Elongation at Break     | 70 %                  | 70 %                  | ASTM D638            |  |
| 1.00 Min Direct1.97 GPa285 ksiTangent; ASTM D790Izod Impact, Notched0.694 J/cm1.30 ft-lb/inASTM D256Gardner Impact7.23 J5.33 ft-lb<br>@Temperature -30.0 °CASTM D5420@Temperature -30.0 °C13.3 ft-lbASTM D5420  | Elongation at Yield     | 8.5 %                 | 8.5 %                 | ASTM D638            |  |
| Izod Impact, Notched0.694 J/cm1.30 ft-lb/inASTM D256Gardner Impact7.23 J5.33 ft-lb<br>@Temperature -30.0 °CASTM D5420@Temperature -30.0 °C@Temperature -22.0 °FASTM D542018.1 J13.3 ft-lbASTM D5420   | Flexural Modulus        | 1.72 GPa              | 250 ksi               | 1% Secant; ASTM D790 |  |
| Gardner Impact 7.23 J 5.33 ft-lb   @Temperature -30.0 °C @Temperature -22.0 °F   18.1 J 13.3 ft-lb   ASTM D5420   |                         | 1.97 GPa              | 285 ksi               | Tangent; ASTM D790   |  |
| Gardner Impact ASTM D5420   @Temperature -30.0 °C @Temperature -22.0 °F   18.1 J 13.3 ft-lb   ASTM D5420  | Izod Impact, Notched    | 0.694 J/cm            | 1.30 ft-lb/in         | ASTM D256            |  |
| @Temperature -30.0 °C @Temperature -22.0 °F   18.1 J 13.3 ft-lb   ASTM D5420  | Gardner Impact          | 7.23 J                | 5.33 ft-lb            | ASTM D5420           |  |
| ASTM D5420  |                         | @Temperature -30.0 °C | @Temperature -22.0 °F |                      |  |
|   |                         | 18.1 J                | 13.3 ft-lb            | ASTM 05420           |  |
|   |                         | @Temperature 23.0 °C  | @Temperature 73.4 °F  | A0111120720          |  |

| Thermal Properties                             | Metric | English | Comments  |  |
|--|--------|---------|-----------|--|
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 113 °C | 235 °F  | ASTM D648 |  |

## Contact Songhan Plastic Technology Co.,Ltd.

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