

## Braskem CP 442 XP Injection Molding Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

**Material Notes:**

Description: CP 442XP is a medium melt flow rate heterophasic copolymer suitable for injection molding applications. The product combines good stiffness with excellent impact resistance even at sub-zero temperatures and also provides good surface properties and excellent processability. Applications: Automotive parts; Toys; Household Appliances; Crates; Buckets; Compounds. Information provided by Braskem

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Braskem-CP-442-XP-Injection-Molding-Polypropylene.php](http://www.lookpolymers.com/polymer_Braskem-CP-442-XP-Injection-Molding-Polypropylene.php)

| Physical Properties | Metric   | English  | Comments    |
|---------------------|--|--|-------------|
| Density             | 0.895 g/cc   | 0.0323 lb/in <sup>3</sup>                            | ASTM D792A  |
| Melt Flow           | 6.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 6.0 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | ASTM D1238L |

| Mechanical Properties   | Metric                              | English                                 | Comments             |
|-------------------------|-------------------------------------|---|----------------------|
| Hardness, Rockwell R    | 38                                  | 38                                      | ASTM D785            |
| Tensile Strength, Yield | 24.0 MPa                            | 3480 psi                                | ASTM D638            |
| Elongation at Yield     | 7.0 %                               | 7.0 %                                   | ASTM D638            |
| Flexural Modulus        | 1.10 GPa                            | 160 ksi                                 | 1% secant; ASTM D790 |
| Izod Impact, Notched    | 0.500 J/cm<br>@Temperature -20.0 °C | 0.937 ft-lb/in<br>@Temperature -4.00 °F | ASTM D256A           |

| Thermal Properties                          | Metric  | English | Comments         |
|---|---------|---------|------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 93.0 °C | 199 °F  | ASTM D648        |
| Deflection Temperature at 1.8 MPa (264 psi) | 52.0 °C | 126 °F  | ASTM D648        |
| Vicat Softening Point                       | 145 °C  | 293 °F  | 10 N; ASTM D1525 |

## Contact Songhan Plastic Technology Co.,Ltd.

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