

# Trilliant™ HC X HC5200-0025 RS Natural

Polypropylene Copolymer

PolyOne Corporation

Message:

Trilliant™ HC X HC5200-0025 RS Natural is a Polypropylene Copolymer (PP Copolymer) product filled with talc. It can be processed by injection molding and is available in North America. Applications of Trilliant™ HC X HC5200-0025 RS Natural include medical/healthcare, consumer goods and industrial applications.

Characteristics include:

Copolymer

Impact Modified

| General Information                               |                                 |                    |             |
|---|---------------------------------|--------------------|-------------|
| Filler / Reinforcement                            | Talc                            |                    |             |
| Additive  | Impact Modifier                 |                    |             |
| Features  | Copolymer                       |                    |             |
|   | Impact Modified                 |                    |             |
|   | Specialty Grade                 |                    |             |
| Uses  | Consumer Applications           |                    |             |
|   | Disposable Hospital Goods       |                    |             |
|   | Hospital Goods                  |                    |             |
|   | Industrial Applications         |                    |             |
|   | Medical/Healthcare Applications |                    |             |
| Appearance  | Natural Color                   |                    |             |
| Forms   | Pellets                         |                    |             |
| Processing Method                                 | Injection Molding               |                    |             |
| Physical  | Nominal Value                   | Unit               | Test Method |
| Specific Gravity                                  | 1.05                            | g/cm <sup>3</sup>  | ASTM D792   |
| Specific Volume                                   | 0.954                           | cm <sup>3</sup> /g | ASTM D792   |
| Instrumented Dart Impact - Energy to Maximum Load | 673                             | J/m                | ASTM D3763  |
| Molding Shrinkage - Flow                          | 0.80 to 1.2                     | %                  | ASTM D955   |
| Hardness  | Nominal Value                   | Unit               | Test Method |
| Rockwell Hardness (R-Scale)                       | 70                              |                    | ASTM D785   |
| Mechanical  | Nominal Value                   | Unit               | Test Method |
| Tensile Strength <sup>1</sup> (Yield)             | 24.8                            | MPa                | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)           | 60                              | %                  | ASTM D638   |
| Flexural Modulus                                  | 2000                            | MPa                | ASTM D790   |
| Flexural Strength                                 | 37.9                            | MPa                | ASTM D790   |
| Impact  | Nominal Value                   | Unit               | Test Method |


| Notched Izod Impact (23°C, 3.18 mm, Injection Molded)             | 59                | J/m  | ASTM D256A  |
|---|-------------------|------|-------------|
| Unnotched Izod Impact <sup>3</sup> (23°C, 3.18 mm)                | 810               | J/m  | ASTM D256   |
| Gardner Impact (-23°C, 3.18 mm)                                   | 9.26              | J    | ASTM D3029  |
| Thermal   | Nominal Value     | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.18 mm) | 118               | °C   | ASTM D648   |
| NOTE  |                   |      |             |
| 1.  | Type I, 51 mm/min |      |             |
| 2.  | Type I, 51 mm/min |      |             |
| 3.  | Injection Molded  |      |             |

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