

## HiPrene® HT41WGT

Polypropylene Compound

### Product Description

HiPrene® HT41WGT is a medium melt flow, 15% mineral filled polypropylene compound. This material is high stiffness and it is primarily designed for Home Appliance Parts but is suitable for other parts in automotive industry.

### Product Characteristics

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Status</b>                        | Commercial: Active                                     |
| <b>Test Method Used</b>              | ISO                                                    |
| <b>Availability</b>                  | Europe/Asia                                            |
| <b>Features</b>                      | Mineral Filler Reinforced                              |
| <b>Typical Customer Applications</b> | Automotive Parts/Home Appliance Parts/Industrial Parts |

### Typical Properties

| Physical                                   | Symbol               | Test Method        | Unit              | Specification      |
|--------------------------------------------|----------------------|--------------------|-------------------|--------------------|
| Melt Mass-Flow Rate                        | MFR                  | ISO 1133-2/A       | g/10min           | <b>10</b>          |
| Specific Gravity                           | $\rho$               | ISO 1183           | g/cm <sup>3</sup> | <b>1,00 ± 0,02</b> |
| Molding Shrinkage                          | S <sub>M</sub>       | ISO 294-4          | %                 | -                  |
| Mechanical                                 | Symbol               | Test Method        | Unit              | Specification      |
| Tensile Strength                           | $\sigma_m$           | ISO 527-2/1A/50    | MPa               | <b>min. 29</b>     |
| Nominal Tensile Strain at Break            | $\epsilon_{IB}$      | ISO 527-2/1A/50    | %                 | <b>min. 15</b>     |
| Flexural Strength                          | $\sigma_{fm}$        | ISO 178/B          | Mpa               | <b>N/A</b>         |
| Flexural Modulus                           | E <sub>f</sub>       | ISO 178/B          | MPa               | <b>min. 2100</b>   |
| Impact                                     | Symbol               | Test Method        | Unit              | Specification      |
| Notched IZOD Impact Strength @ 23°C        | a <sub>N23°C</sub>   | ISO 180/A/23°C     | J/m               | <b>min. 35</b>     |
| Hardness                                   | Symbol               | Test Method        | Unit              | Specification      |
| Rockwell Hardness (R-Scale)                | HR-R                 | ISO 2039-2/R       | -                 | <b>min. 90</b>     |
| Thermal                                    | Symbol               | Test Method        | Unit              | Specification      |
| Temperature of Deflection under Load (HDT) | T <sub>f</sub>       | ISO 75-2/A         | °C                | <b>N/A</b>         |
| Volatile Matters                           |                      | GS Standard SOP003 | %                 | <b>max. 0,15</b>   |
| Ash Content @ 600°C                        | Ash <sub>600°C</sub> | ISO 3451-1/A/600°C | %                 | <b>15 ± 2</b>      |

### Notes

Typical properties; not to be constructed as specifications

### Contact

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