

# Tectron H2396

Thermoplastic Vulcanizate

TECTRON Systems Pte Ltd

## Message:

A thermoplastic vulcanizate with excellent heat and low temperature resistance. It can withstand temperature ranging from -50°C to 135°C. Tectron H series are available in concentrate and compound with hardness ranging from 45A - 90A. The concentrate is designed for compounders to obtain TPVs with the addition of PP and other chemicals. It can also be used as an additive to enhance the overall properties of various polymers. It can be processed by conventional plastics machines i.e. injection molding and extrusion.

| General Information |                       |  |  |
|---------------------|-----------------------|--|--|
| Features            | Heat resistance, high |  |  |
| Appearance          | Black                 |  |  |
| Forms               | Particle              |  |  |
| Processing Method   | Extrusion             |  |  |
|                     | Injection molding     |  |  |

| Physical         | Nominal Value | Unit              | Test Method |
|------------------|---------------|-------------------|-------------|
| Specific Gravity | 0.890         | g/cm <sup>3</sup> | ASTM D792   |

| Hardness                     | Nominal Value | Unit | Test Method |
|------------------------------|---------------|------|-------------|
| Durometer Hardness (Shore A) | 60            |      | ASTM D2240  |

| Elastomers                   | Nominal Value | Unit | Test Method |
|------------------------------|---------------|------|-------------|
| Tensile Stress (100% Strain) | 1.90          | MPa  | ASTM D412   |
| Tensile Strength (Yield)     | 9.80          | MPa  | ASTM D412   |
| Tensile Elongation (Break)   | 1200          | %    | ASTM D412   |
| Compression Set              |               |      | ASTM D395   |
| 25°C, 22 hr                  | 19            | %    | ASTM D395   |
| 100°C, 22 hr                 | 55            | %    | ASTM D395   |

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 70.0          | °C   |
| Drying Time        | 2.0 - 4.0     | hr   |
| Rear Temperature   | 140 - 150     | °C   |
| Middle Temperature | 160 - 170     | °C   |
| Front Temperature  | 170 - 190     | °C   |
| Nozzle Temperature | 190 - 210     | °C   |
| Mold Temperature   | 30.0 - 40.0   | °C   |
| Back Pressure      | 0.00 - 0.0800 | MPa  |
| Screw Speed        | 35 - 110      | rpm  |

| Injection instructions |
|------------------------|
|------------------------|

Injection Speed: 20 to 80 mm/s1st Stage - Boost Pressure: 1350 to 6000Hold Time ( thick part): 2 to 15 sec

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