

# T-Blend® 5503N-PE

Thermoplastic Elastomer

TSRC Corporation

## Message:

T-Blend® 5503N-PE is a Thermoplastic Elastomer (TPE) product. It can be processed by extrusion or injection molding and is available in Asia Pacific. Applications of T-Blend® 5503N-PE include handles, bags/liners, business/office goods, consumer goods and engineering/industrial parts. Characteristics include:

- Chemical Resistant
- Eco-Friendly/Green
- Fast Molding Cycle
- Food Contact Acceptable
- Good Adhesion

| General Information |                                      |
|---------------------|--------------------------------------|
| Features            | Fast Molding Cycle                   |
|                     | Food Contact Acceptable              |
|                     | Good Adhesion                        |
|                     | Good Chemical Resistance             |
|                     | Good Colorability                    |
|                     | Good Weather Resistance              |
|                     | Non-Toxic                            |
|                     | Recyclable Material                  |
| Uses                | Flexible Grips                       |
|                     | Household Goods                      |
|                     | Liners                               |
|                     | Overmolding                          |
|                     | Power/Other Tools                    |
|                     | Sporting Goods                       |
|                     | Stationary Supplies                  |
|                     | Toothbrush Handles                   |
|                     | Toys                                 |
|                     |                                      |
|                     |                                      |
|                     |                                      |
|                     |                                      |
|                     |                                      |
|                     |                                      |
|                     |                                      |
| Agency Ratings      | FDA Food Contact, Unspecified Rating |
| Appearance          | Natural Color                        |
| Processing Method   | Extrusion                            |
|                     | Injection Molding                    |

| Physical                                  | Nominal Value | Unit              | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity                          | 1.18 to 1.22  | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (180°C/2.16 kg) | 6.0 to 16     | g/10 min          | ASTM D1238  |
| Hardness                                  | Nominal Value | Unit              | Test Method |

| Durometer Hardness (Shore A) | 53 to 57      |      | ASTM D2240  |
|------------------------------|---------------|------|-------------|
| Elastomers                   | Nominal Value | Unit | Test Method |
| Tensile Strength (Break)     | 3.43          | MPa  | ASTM D412   |
| Tensile Elongation (Break)   | 560           | %    | ASTM D412   |
| Tear Strength                | 18.6          | kN/m | ASTM D624   |
| Additional Information       | Nominal Value |      |             |
| Substrate                    | PP            |      |             |
| Injection                    | Nominal Value | Unit |             |
| Processing (Melt) Temp       | 180 to 210    | °C   |             |

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