

# Dynaprene® VE0080A

Thermoplastic Elastomer

Nantex Industry Co., Ltd.

## Message:

Dynaprene® VE0080A is a Thermoplastic Elastomer (TPE) material. It is available in Asia Pacific for injection molding.

| General Information                             |                   |                   |                 |
|-------------------------------------------------|-------------------|-------------------|-----------------|
| Features                                        | General Purpose   |                   |                 |
| Uses                                            | General Purpose   |                   |                 |
| Forms                                           | Pellets           |                   |                 |
| Processing Method                               | Injection Molding |                   |                 |
| Physical                                        | Nominal Value     | Unit              | Test Method     |
| Specific Gravity                                | 0.958             | g/cm <sup>3</sup> | ASTM D792       |
| Moisture Content                                | < 0.060           | %                 | Internal Method |
| Hardness                                        | Nominal Value     | Unit              | Test Method     |
| Durometer Hardness (Shore A, 5 sec)             | 82                |                   | ASTM D2240      |
| Elastomers                                      | Nominal Value     | Unit              | Test Method     |
| Tensile Set (100% Strain)                       | 17                | %                 | ASTM D412       |
| Tensile Stress (100% Strain)                    | 4.20              | MPa               | ASTM D412       |
| Tensile Strength - Across Flow (Yield)          | 9.80              | MPa               | ASTM D412       |
| Tensile Elongation - Across Flow (Break)        | 450               | %                 | ASTM D412       |
| Tear Strength <sup>1</sup> (23°C)               | 55.0              | kN/m              | ASTM D624       |
| Compression Set (100°C, 22 hr)                  | 37                | %                 | ASTM D395B      |
| Aging                                           | Nominal Value     | Unit              | Test Method     |
| Change in Volume (121°C, 24 hr, in IRM 903 Oil) | 59                | %                 | ASTM D471       |
| Thermal                                         | Nominal Value     | Unit              | Test Method     |
| Brittleness Temperature                         | < -60.0           | °C                | ASTM D746       |
| NOTE                                            |                   |                   |                 |
| 1.                                              | Die C             |                   |                 |

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