

# Dawnprene TPE 7504-PB

TPE

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## Features:

It is a clear, thermoplastic elastomer (TPE) material. This material combines good physical properties, chemical resistance and elasticity, designed for injection applications. This grade of TPE can be processed on conventional thermoplastics equipment for injection. It is completely recyclable.

| <b>(GENERAL)</b>                                                                                                                                                                                                                                                      |                      |                   |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------|--------------------|
| (Application)                                                                                                                                                                                                                                                         | general injection    |                   |                    |
| RoHS Compliance                                                                                                                                                                                                                                                       | RoHS                 |                   |                    |
| (Color)                                                                                                                                                                                                                                                               | Clear                |                   |                    |
| (Form)                                                                                                                                                                                                                                                                | Pellet               |                   |                    |
| (Processing Method)                                                                                                                                                                                                                                                   | injection            |                   |                    |
| (Revision Date)                                                                                                                                                                                                                                                       | 2017-08-11           |                   |                    |
| <b>Physical</b>                                                                                                                                                                                                                                                       | <b>Typical Value</b> | <b>Unit</b>       | <b>Test Method</b> |
| (Density)                                                                                                                                                                                                                                                             | 0.89                 | g/cm <sup>3</sup> | ASTM D792          |
| <b>(Hardness)</b>                                                                                                                                                                                                                                                     |                      |                   |                    |
| Shore Hardness(Shore A, 10 sec,2                                                                                                                                                                                                                                      | 73                   | A                 | ASTM D2240         |
| - 2                                                                                                                                                                                                                                                                   | 14.0                 | MPa               | ASTM D412          |
| Tensile strength-parallel flow direction 2                                                                                                                                                                                                                            |                      |                   |                    |
| - 2                                                                                                                                                                                                                                                                   | 750                  | %                 | ASTM D412          |
| 2                                                                                                                                                                                                                                                                     |                      |                   |                    |
| 100% - 2                                                                                                                                                                                                                                                              | 2.8                  | Mpa               | ASTM D412          |
| 300% - 2                                                                                                                                                                                                                                                              | 4.0                  | Mpa               | ASTM D412          |
| - 2                                                                                                                                                                                                                                                                   | 53                   | KN/m              | ASTM D624          |
|                                                                                                                                                                                                                                                                       |                      |                   |                    |
| 0.01%                                                                                                                                                                                                                                                                 |                      |                   |                    |
| Drying Instructions: Need drying the granules before make molding,excessive moisture will lead materials bad extrusion surface,mechanical performance reduction and bad surface appearance. Moisture content request below 0.01%,suggesting drying as follow process: |                      |                   |                    |
| Drying conditions                                                                                                                                                                                                                                                     | Dring temperature/   | Dring time/h      |                    |
| first choice                                                                                                                                                                                                                                                          | 80 90                | 2 3               |                    |
| other choice                                                                                                                                                                                                                                                          | 100                  | 1                 |                    |
| 110                                                                                                                                                                                                                                                                   |                      | 105               |                    |
| If drying temperature over than 110 ,it might cause materials blocking in barrel zone;if use moisture analysis meter,the temperture setting should be on 105 .                                                                                                        |                      |                   |                    |

|   |        |         |         |         |         |         |       |
|---|--------|---------|---------|---------|---------|---------|-------|
| R |        |         |         |         |         |         |       |
| 4 | 16-170 | 170-190 | 180-210 | 180-210 | 180-190 | 170-180 | 50-70 |

1. Dawnprene TPE PVC

Dawnprene TPE is incompatible with PVC materials, hence must clean the equipment before using.

2. 120 100 2 , .

Above testing data is tested by injection sample block, cutting by the sheet size is 110 85 2 .

3. .

The properties is typical performance, is not regarding as technical index or agreement.

4.

Any reprocessing must follow the above instructions, and ensure no content impurity.

5.

Above instructions for reference only, different equipment might have difference parameters, please adjust accordingly with different mold and product sh0 1 77W\*490.56 46.8 reW\*110/F3 9 Tf1 0 0 1 56.7oW\*110/F2 9 Tf1nsi.44 608.38 490.56 31.192f1nsi.44 608.2 0.487