

# Dawnprene TPE 5002-PE

TPE

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Features:

A soft thermoplastic elastomer (TPE) family. 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 or blow molding. It is completely recyclable.

<b>(GENERAL)</b>			
(Application)	general injection		
RoHS Compliance	RoHS		
(Form)	Pellet		
(Color)	Natural		
(Processing Method)	(Injection)		
(Revision Date)	2021-05-10		
<b>Physical</b>	<b>Typical Value</b>	<b>Unit</b>	<b>Test Method</b>
(Density)	1.256	g/cm <sup>3</sup>	ASTM D792
<b>(Hardness)</b>			
Shore Hardness(Shore A, 10 sec, 23 °C)	48.5	A	ASTM D2240
<b>(Mechanical Property)</b>			
100% Elongation at break-23	1.06	Mpa	ASTM D412
100% Steching strength-23			
Tensile strength- 23	3.31	Mpa	ASTM D412
Elongation at break-23	699	%	ASTM D412
Tear strength-23	17.1	%	ASTM D624
0.1%			
Drying Instructions: No broken bags do not need to dry ,if there is broken bags,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 0.1%,suggesting drying as follow process:			
Drying conditions	Drying temperature/		Drying time/h
first choice	70 80		2 3
other choice	90		1
110	105		
If drying temperature over than 110 °C ,it might cause materials blocking in barrel zone;if use moisture analysis meter,the temperture setting should be on 105 °C .			



Screw Speed R	Zone I	Zone II	Zone III	Zone IV	Zone V	Nozzl or Die	Mould
40-150	160-170	180-190	190-200	190-200	190-205	190-205	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 molding sample block, cutting by the sheet size is 120 × 100 × 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 shape.

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