


# Dawnflex TPU DN-2085

## FEATURES

A kind of thermoplastic polyurethane (TPU) materials, with good physical properties, high transparency, excellent elasticity, good processing fluidity and fast forming speed performances, is mainly used for injection/ extrusion products. It is non-toxic and environmentally friendly material, and completely recyclable.

General information			
Application	/ Injection/ extrusion products		
RoHS RoHS compliance	Complied		
Color	Colorless, transparent		
Appearance	Particle		
Processing method	/ Injection/ extrusion		
Revision period	2019-6-5		
Performance parameters	Typical value	Unit	Method
Density	1.23	g/cm <sup>3</sup>	ASTM D792
Shore Hardness	85.20	A	ASTM D2240
Tensile strength	33.2	MPa	ASTM D412
100% 100% proof strength	5.24	MPa	ASTM D412
300% 300% proof strength	9.85	MPa	ASTM D412
Elongation at break	557.51	%	ASTM D412
Tear strength	98.4	KN/m	ASTM D624
Moisture content	0.03	%	ASTM D4019
Processing conditions			
0.05%			
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 0.05%,suggesting drying as follow process:			
Drying conditions	Drying temperature/		Drying time/h
	100		2-4
100			100
If drying temperature over than 100 , it might cause materials blocking in barrel zone; if use moisture analysis meter, the temperature setting should be on 100 .			
			
/	/	/	/
-	-	190-200	205-215
		215-225	225-235
			35-50

**Extra information**

1.

The above properties are typical performance which is not regarding as technical index or agreement.

2.

Above instructions for reference only, different equipment might have difference parameters, please adjust accordingly with different mold and product shape.

