


Dawnflex TPU DN-5385E

FEATURES

A kind of polyether type thermoplastic polyurethane (TPU) materials, with good physical properties, high elasticity, good processing fluidity and aging resistance excellent hydrolysis resistance and low temperature flexibility and dimensional stability is mainly used for extrusion and calendaring products. It is non-toxic and environmentally friendly material, and completely recyclable.

General information			
Application	Extrusion products		
RoHS RoHS compliance	Complied		
Color	Colorless		
Appearance	Particle		
Processing method	Extrusion Calendaring		
Revision period	2019-08-20		
Performance parameters	Typical value	Unit	Method
Density	1.12	g/cm ³	ASTM D792
Shore Hardness	83	A	ASTM D2240
Tensile strength	39.82	MPa	ASTM D412
100% 100% proof strength	5.01	MPa	ASTM D412
300% 300% proof strength	9.78	MPa	ASTM D412
Elongation at break	693	%	ASTM D412
Tear strength	85.32	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
	95-100		2-3
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 .			
			
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160-170	165-175	170-180	175-185 180-190

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.

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