Technical Data Sheet

SKYPEL G940DW

DESCRIPTION

SKYPEL G940DW is a thermoplastic polyester elastomer resin superior heat resistance and non-discoloring properties. SKYPEL G940DW with medium 40D hardness based on shore D scale is widely used for injection molding and extrusion applications.

OUTSTANDING CHARACTERISTICS AND PROPERTIES

SKYPEL G940DW offers enhanced performance upon high thermal stability and flex fatigue resistance.
Outstanding characteristics of SKYPEL G940DW are listed below.

1. Good melt adhesion property due to the low melt viscosity.
2. Good thermal stability including non discoloring property at high temperature.

APPLICATION

SKYPEL G940DW which is designed for minimizing fuse properties during the fiber spining process is suitable for fiber application. In addition, It is able to be applied for compounding and producing special product such as seals, cable jackets, tubes, belts, and sheets.

Physical properties

Properties	ASTM No	Units	**G940DW**
Hardness	D2240	Shore D	40
Melting Point 1)	D3418	°C	157
Melt Flow Rate Temperature, °C / 2.16kg	D1238	°C g/10min	13 190

1) Differential Scanning Calorimeter (DSC), peak of endotherm. Heating rate 10°C/min.

Notice 1) The additional physical data will be update soon.

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Process condition

SKYPEL G940DW is able to be used for producing staple fiber for nonwoven applications by sheath-core spining process. The fiber spinning process temperature condition show below.

Staple Fiber Processing condition with PET for nonwoven

Fiber Spinning Temp.	PET	℃	280
	G940DW	℃	220 – 270[1)]
Draw ratio	3.2 – 3.4		
Dry Temp.	90 – 100℃		

1) The process temperature condition is depending on the nozzle type.

General purpose processing condition

Injection	Cylinder Rear	℃	165	Extrusion	Cylinder Rear	℃	150
	Center		175		Center		160
	Front		175		Front		165
	Nozzle		180		Die		165
	Mold		25		Melt		170