

SKYPEL® G940DW

SK Chemicals - Thermoplastic Polyester Elastomer

General Information

Product 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 spinning 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.

General

Features	<ul style="list-style-type: none"> • Fatigue Resistant • Good Adhesion 	<ul style="list-style-type: none"> • Good Color Stability • Good Thermal Stability 	<ul style="list-style-type: none"> • High Heat Resistance • Low Viscosity
Uses	<ul style="list-style-type: none"> • Belts/Belt Repair • Cable Jacketing • Compounding 	<ul style="list-style-type: none"> • Fibers • Seals • Sheet 	<ul style="list-style-type: none"> • Tubing
Forms	<ul style="list-style-type: none"> • Pellets 		
Processing Method	<ul style="list-style-type: none"> • Compounding • Extrusion 	<ul style="list-style-type: none"> • Fiber (Spinning) Extrusion • Injection Molding 	

Properties¹

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	13	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	40		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Peak Crystallization Temperature (DSC) ²	315	°F	ASTM D3418

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	329	°F
Middle Temperature	347	°F
Front Temperature	347	°F
Nozzle Temperature	356	°F
Mold Temperature	77	°F
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	302	°F
Cylinder Zone 3 Temp.	320	°F
Cylinder Zone 5 Temp.	329	°F
Melt Temperature	338	°F

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Extrusion	Nominal Value	Unit
Die Temperature	329	°F

Extrusion Notes

Fiber Spinning Temp: PET: 280 °C; G940DW: 220 - 270 1°C

Draw ratio: 3.2 - 3.4

Dry Temp.: 90 - 100 °C

Notes

¹ Typical properties: these are not to be construed as specifications.

² Heating rate 10°C/min.