Supreme™ 021

Polyolefin Plastomer

Introduction

Supreme™ 021, Polyolefin Plastomer (POP), is an **ethylene-octene copolymer** produced via Nexlene™ technology. Supreme™ 021 performs well in a wide range of various food & non-food packaging films with excellent sealing property and impact strength.

Typical Performance:

- Excellent low seal initiation temperature and hot tack strength
- Superior impact strength and transparency

Compiles with:

- US. FDA 21 CFR 177.1520
- EU. No 10/2011

Additives:

- Antiblock: No
- Slip: No

Properties

			Typical Values	Unit	Test Method
Resin Properties	Density		0.902	g/cm^3	ASTM D792
	Melt index (2.16 kg @190^{o}C)		1.0	g/10min	ASTM D1238
	Melting temperature		100	^{o}C	SK Method
	Vicat softening temperature		85	^{o}C	ASTM D1525
Film Properties	Film thickness - tested		40	μm	ASTM D374
	Dart impact strength		>1000	g	ASTM D1709A
	Haze		3	%	ASTM D1003
	Seal initiation temperature		84	^{o}C	SK Method[1]
	Elmendorf tear strength	MD	10	g/μm	ASTM D1922
		TD	17	g/μm	ASTM D1922
	Tensile strength at break	MD	520	kg/cm^2	ASTM D882
		TD	560	kg/cm^2	ASTM D882

Elongation at break	MD	600	%	ASTM D882
	TD	650	%	ASTM D882
Secant modulus (1%)	MD	550	kg/cm^2	ASTM D882
	TD	600	kg/cm^2	ASTM D882

Extrusion Condition

- Screw size: 35 mm
- Die diameter: 100 mm
- Die gap: 1 mm
- Blow-up ratio: 2.1
- Melt temperature: 160-180 ^oC

[1] Temperature at which 0.4 kg/25.4 mm heat seal strength is achieved

Notes
These are ***typical values*** and are ***not be construed as specifications*.** The physical properties are highly dependent on the manufacturing conditions. So customers should confirm performances by their own tests.

For additional sales, order and technical assistance

Head office SK Global Chemical Co.,LTD
26 Jong-ro, Jongno-gu,
Seoul, Korea
TEL +82-2-2121-5052

TS&D SK innovation Global Technology
325 Exporo,Yueseong-gu,
Daejeon, Korea
TEL +82-42-609-8623