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Technical Information

Supreme™ 024

Polyolefin Plastomer

Introduction

Supreme™ 024, Polyolefin Plastomer (POP), is an **ethylene-octene copolymer** produced via Nexlene™ technology. Supreme™ 024 performs well in a wide range of various cast film applications with excellent sealing property, cling force, and impact strength.

Typical Performance:

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

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)		3.5	g/10min	ASTM D1238
	Melting temperature		98	^{o}C	SK Method
	Vicat softening temperature		83	^{o}C	ASTM D1525
Film Properties	Film thickness - tested		25	µm	ASTM D374
	Dart impact strength		850	g	ASTM D1709A
	Haze		0.5	%	ASTM D1003
	Seal initiation temperature		84	^{o}C	SK Method[1]
	Elmendorf tear strength	MD	9	g/µm	ASTM D1922
		TD	22	g/µm	ASTM D1922
	Tensile strength at break	MD	480	kg/cm^2	ASTM D882
		TD	400	kg/cm^2	ASTM D882

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Elongation at break	MD	400	%	ASTM D882
	TD	740	%	ASTM D882
Secant modulus (1%)	MD	680	kg/cm^2	ASTM D882
	TD	780	kg/cm^2	ASTM D882

Extrusion Condition

- Screw size: 30 mm
- Screw speed: 30 rpm
- Die gap: 1 mm
- Melt temperature: 230 ^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

Revised: Aug. 5th, 2016