



AFFINITY™ KC 8852G

The Dow Chemical Company - Polyolefin Plastomer

Monday, November 4, 2019

General Information

Product Description

- Excellent inherent cling properties
- Excellent optical properties
- Excellent toughness properties

Complies with:

- U.S. FDA FCN 424
- Canadian HPFB No Objections

Consult the regulations for complete details.

AFFINITY* KC 8852G Polyolefin Plastomer (POP) is produced via INSITE* Technology. This resin is an ethyleneoctene copolymer that offers excellent performance as a cling resin in one-sided stretch cling film applications. This polyolefin plastomer provides excellent cling and optics, while offering outstanding toughness.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Additive	• Antiblock: No • Processing Aid: No • Slip: No
Agency Ratings	• FDA FCN 424 • HPFB (Canada) No Objection
Forms	• Pellets
Processing Method	• Cast Film

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.877		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Film Puncture Resistance (0.80 mil, Cast Film)	190	ft-lb/in ³	Internal Method
Dart Drop Impact (0.80 mil, Cast Film)	150	g	ASTM D1709
Film Cling			ASTM D4649
0.8 mil ²	250	g	
0.8 mil ³	130	g	
0.8 mil ⁴	150	g	
0.8 mil ⁵	110	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	118	°F	ASTM D1525
Melting Temperature (DSC)	154	°F	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 0.800 mil, Cast Film)	66		ASTM D2457
Haze (0.800 mil, Cast Film)	4.30	%	ASTM D1003

Additional Information

The resin was utilized as the cling layer in coextruded cast and blown 0.8 mil (21 µm), one-sided stretch cling film structures.

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Notes

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

² Cast Film, Unstretched

³ Cast Film, 200% Stretched

⁴ Blown Film, Unstretched

⁵ Blown Film, 200% Stretched