

RETAIN™ 3000

Functional Polymer

The Dow Chemical Company

Message:

RETAIN™ 3000 is a functional polymer which promotes compatibilization between polyolefins and polar polymers such as ethylene vinyl alcohol (EVOH) and polyamide (Nylon) and blends of polar polymers. RETAIN™ 3000 functions to enhance the dispersion of the polar polymers into the polyolefin matrix such that the haze of the resulting structure is minimized. The utility may be achieved where the polyolefin is either a polyethylene or polypropylene.

Main Characteristics:

Good compatibilization between polyolefins and polar polymers

Wide range of process and service temperature

For blown and cast film

May be used in-line or pre-compounded

Complies with:

EU, No 10/2011

US FDA 21 CFR 175.105 (c)(5)

Consult the regulations for complete details.

General Information			
Agency Ratings		EU No 10/2011	
		FDA 21 CFR 175.105(c) (5)	
Forms		Pellets	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.870	g/cm ³	ASTM D792
Gardner Color	< 5.00		ASTM D3417
MAH Graft Level ¹	High		Internal Method
Brookfield Viscosity ² (177°C)	13.0	Pa · s	ASTM D1084
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-58.0	°C	Internal Method
Melting Temperature	67.8	°C	Internal Method
NOTE			
1.	Low: 0.5 wt%		
2.	The Brookfield viscosity would correspond to a melt index of about 660 (2.16 kg @ 190C)		

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