



Appeel® 22D843

DuPont Packaging & Industrial Polymers - Ethylene Acrylate Copolymer

Sunday, November 3, 2019

General Information

Product Description

DuPont™ Appeel® 22D843 is a polypropylene modified ethylene acrylate resin designed to function as a masterbatch to achieve peelability in polypropylene based sealant layers.

It provides peelable seals over a broad temperature range. The peel layers will sustain sterilization conditions of 121°C for 20 minutes through 134°C for 6 minutes depending on the base of the PP seal materials.

When blending for this type of application, 22D843 should be evaluated as a modifier for HoPP or CoPP by addition rates between 20% to 40% by weight.

Blends with CoPP will usually provide better results.

Appeel® 22D843 is available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene resins.

General

Material Status	• Experimental: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Heat Seal		
Uses	• Blending	• Masterbatch	
Agency Ratings	• FDA 21 CFR 177.1340		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.939		ASTM D792
Density	0.937	g/cm ³	ISO 1183
Melt Mass-Flow Rate			ASTM D1238
190°C/2.16 kg	2.6	g/10 min	
230°C/2.16 kg	6.4	g/10 min	
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	2.6	g/10 min	
230°C/2.16 kg	6.4	g/10 min	
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	277	°F	ASTM D3418
Melting Temperature (DSC)	277	°F	ISO 3146

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	284	°F
Cylinder Zone 2 Temp.	302	°F
Cylinder Zone 3 Temp.	320	°F
Cylinder Zone 4 Temp.	356	°F
Cylinder Zone 5 Temp.	356	°F
Adapter Temperature	356	°F
Melt Temperature	320 to 365	°F
Die Temperature	338	°F

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Notes

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