



Appeel® 45D747

DuPont Packaging & Industrial Polymers - Polyolefin

Tuesday, November 5, 2019

General Information

Product Description

Appeel® 45D747 is a modified polyolefin resin designed to provide easy peel functionality from ethylene copolymers. Appeel® 45D747 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	• Food Contact Acceptable		
Agency Ratings	• FDA 21 CFR 177.1520		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.916		ASTM D792
Density	0.914	g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	4.2	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.2	g/10 min	ISO 1133
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	203	°F	ASTM D1525
Vicat Softening Temperature	203	°F	ISO 306
Peak Melting Temperature	234	°F	ASTM D3417
Melting Temperature (DSC)	234	°F	ISO 3146

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	356	°F
Cylinder Zone 2 Temp.	410	°F
Cylinder Zone 3 Temp.	500	°F
Cylinder Zone 4 Temp.	545	°F
Cylinder Zone 5 Temp.	545	°F
Adapter Temperature	545	°F
Melt Temperature	500 to 581	°F
Die Temperature	545	°F

Extrusion Notes

Blown Film Processing Information:

Melt Temperature: 170 °C - 195°C (338 °F - 383 °F)

Feed Zone: 140°C (284°F)

Second Zone: 150°C (302°F)

Third Zone: 170°C (338°F)

Fourth Zone: 195°C (383°F)

Fifth Zone: 195°C (383°F)

Adapter Zone: 195°C (383°F)

Die Zone: 195°C (383°F)

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Notes

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