Appeel® 20D875

Sunday, November 3, 2019

DuPont Packaging & Industrial Polymers - Ethylene Acrylate Copolymer

General Information

Product Description

Appeel® 20D875 is a modified ethylene acrylate resin designed to function as a sealing layer for lidding applications. It is most often suggested to provide strong peelable seals over a broad temperature range to a number of container materials including PP, PS, PET and PVC. Appeel® 20D875 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
Additive	• Slip		
Features	• Good Heat Seal	• Low Temperature Heat Sealability	• Slip
Uses	• Lids	• Sealants	
Agency Ratings	• FDA 21 CFR 177.1340		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.27		ASTM D792
Density	1.27	g/cm³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	11	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ISO 1133
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	140	°F	ASTM D1525
Vicat Softening Temperature	140	°F	ISO 306
Peak Melting Temperature	208	°F	ASTM D3418
Melting Temperature (DSC)	208	°F	ISO 3146

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	131	°F
Drying Time	5.0	hr
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	302 to 374	°F
Die Temperature	338	°F

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Extrusion Notes

The above processing values are for blown film.

Extrusion coating/lamination parameters:

- Feed Zone: 180°C
- Second Zone: 230°C
- Third Zone: 260°C
- Fourth Zone: 270°C
- Fifth Zone: 270°C
- Adapter Zone: 270°C
- Die Zone: 270°C
- Melt Temperature: 235 to 270°C

Notes

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