

DuPont™ Appeel® 20D784 Ethylene Acrylate

Category : Polymer , Thermoplastic , Ethylene Acrylic Acid

Material Notes:

Appeel® 20D784 is a modified ethylene acrylate resin designed to function as a sealing layer for lidding applications. It is most often suggested to provide peelable seals over a broad temperature range to a number of container materials including PP, PS, and some PVC types. Appeel® 20D784 is available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene resins. APPEEL® 20D784 Lidding Sealant Resin complies with Food and Drug Administration Regulation 21 CFR 177.1340 - - Ethylene-methyl acrylate copolymer resins, subject to the limitations and requirements therein. This Regulation describes polymers that may be used in contact with food, subject to the finished food-contact article meeting the extractive limitations under the intended conditions of use, as shown in paragraph (b) of the Regulation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Appeel-20D784-Ethylene-Acrylate.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------------|--------------------------------------|----------------------|
| Density | 0.930 g/cc | 0.0336 lb/in ³ | ASTM D792, ISO 1183 |
| Melt Flow | 9.0 g/10 min | 9.0 g/10 min | ASTM D1238, ISO 1133 |
| | @Load 2.16 kg, Temperature 190 °C | @Load 4.76 lb, Temperature 374 °F | |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------|---------|----------------------|
| Melting Point | 98.0 °C | 208 °F | ASTM D3417, ISO 3146 |
| Vicat Softening Point | 60.0 °C | 140 °F | ASTM D1525, ISO 306 |

| Processing Properties | Metric | English | Comments |
|------------------------|-----------|-----------|------------------------|
| Processing Temperature | <= 300 °C | <= 572 °F | |
| Feed Temperature | 140 °C | 284 °F | Blown Film Coextrusion |
| | 160 °C | 320 °F | Extrusion Coating |
| Zone 2 | 150 °C | 302 °F | Blown Film Coextrusion |
| | 210 °C | 410 °F | Extrusion Coating |
| Zone 3 | 160 °C | 320 °F | Blown Film Coextrusion |
| | 235 °C | 455 °F | Extrusion Coating |
| Zone 4 | 180 °C | 356 °F | Blown Film Coextrusion |
| | 260 °C | 500 °F | Extrusion Coating |

| Zone 5 Processing Properties | 180 °C Metric | 356 °F English | Blown Film Coextrusion Comments |
|---|--------------------------|---------------------------|--|
| | 285 °C | 545 °F | Extrusion Coating |
| Adapter Temperature | 180 °C | 356 °F | Blown Film Coextrusion |
| | 285 °C | 545 °F | Extrusion Coating |
| Die Temperature | 170 °C | 338 °F | Blown Film Coextrusion |
| | 285 °C | 545 °F | Extrusion Coating |
| Melt Temperature | 160 - 185 °C | 320 - 365 °F | Blown Film Coextrusion |
| | 235 - 285 °C | 455 - 545 °F | Extrusion Coating |

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