

Bynel® 4288

Low Density Polyethylene

DuPont Packaging & Industrial Polymers

Message:

BYNEL® Series 4200 resins are anhydride-modified, low-density polyethylene resins containing anhydride. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins.

General Information

Uses	Films Container
Agency Ratings	FDA 21 CFR 175.105
Forms	Particle
Processing Method	Co-extrusion molding Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.7	g/10 min	ASTM D1238, ISO 1133
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	86.0	°C	ASTM D1525, ISO 306
Melting Temperature	104	°C	DSC

Additional Information

The value listed as Melting Point, DSC, was tested in accordance with ASTM D3418. Freezing Point (DSC), ASTM D3418: 91°C

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	135	°C
Cylinder Zone 2 Temp.	185	°C
Cylinder Zone 3 Temp.	210	°C
Cylinder Zone 4 Temp.	235	°C
Cylinder Zone 5 Temp.	235	°C
Adapter Temperature	235	°C
Melt Temperature	< 260	°C
Die Temperature	235	°C

Extrusion instructions

Processing conditions shown are for coextrusion with EVOH. Processing conditions for coextrusion with nylon: Zone 1: 160°C Zone 2: 210°C Zone 3: 235°C Zone 4: 260°C Zone 5: 260°C Adapter: 260°C Die: 260°C

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