PRIMACOR™ 3003

Copolymer

The Dow Chemical Company

Message:

PRIMACOR™ 3003 Copolymer is an ethylene acrylic acid copolymer which has been specifically designed by Dow for use as an adhesive or sealant layer in extrusion coating and extrusion lamination.
PRIMACOR 3003 Copolymer exhibits:
Excellent draw-down and edge stability
Excellent organoleptic properties
Excellent toughness and strength
Outstanding environmental stress crack and product resistance
Excellent hot-tack and sealability
Adhesion to paper, paperboard, metals and polyethylenes
Insensitivity to moisture
Applications:
Flexible packaging laminates
Liquid packaging board laminates
Complies with:
U.S. FDA 21 CFR 177.1310(a)(1)
EU, No 10/2011
Consult the regulations for complete details.

General Information			
Agency Ratings	EU No 10/2011 FDA 21 CFR 177.1310 (a) 1		
Forms	Pellets		
Processing Method	Extrusion Coating		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.935	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.8	g/10 min	ASTM D1238, ISO 1133
Comonomer Content [1]	6.5	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 2% Secant	130	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	7.50	MPa	
Break	18.0	MPa	
Tensile Elongation (Break)	590	%	ASTM D638, ISO 527-2
Films	**Nominal Value**	**Unit**	**Test Method**
Seal Initiation Temperature [2]	90.0	°C	Internal Method
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	90.0	°C	ISO 306/A
Melting Temperature (DSC)	100	°C	Internal Method
Extrusion	**Nominal Value**	**Unit**	**Test Method**
Melt Temperature	260 to 290	°C	

Minimum Coating Weight (290°C)	8.0	g/m²	Internal Method
Neck-in [3] (290°C)	45.7	mm	Internal Method

NOTE	
1.	Comonomer content measured by a Dow proprietary method that has equivalent accuracy as compared to ASTM D 4094.
2.	25 g/m² coatings at 290°C set temperature.
3.	at 100 m/min, 25 g/m² coatings

Recommended distributors for this material

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WECHAT