PRIMACOR™ 3002

Copolymer

The Dow Chemical Company

Message:

PRIMACOR[™] 3002 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 3002 Copolymer exhibits: Excellent Draw-down and edge stability. Excellent organoleptic properties. Excellent toughness and strength. Adhesion to paper, paperboards, metals and Polyethylene Excellent environmental stress crack and product resistance Excellent hot-tack and sealability Insensitivity to moisture Applications: Food packaging Flexible packaging laminates Liquid packaging 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** Unit Physical Nominal Value Test Method Specific Gravity 0.936 g/cm³ ASTM D792, ISO 1183/A Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) 9.8 g/10 min ASTM D1238, ISO 1133 Comonomer Content¹ 8.0 % Internal Method

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	53		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 2% Secant	110	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	7.00	MPa	
Break	19.0	MPa	
Tensile Elongation (Break)	570	%	ASTM D638, ISO 527-2
Films	Nominal Value	Unit	Test Method
Seal Initiation Temperature ²	85.0	°C	Internal Method
Water Vapor Transmission Rate ³ (38°C,			
90% RH)	0.40	g·mm/m²/atm/24 hr	DIN 53122/2

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
	82.2	°C	ASTM D1525
	82.0	°C	ISO 306
Melting Temperature (DSC)	100	°C	Internal Method
Extrusion	Nominal Value	Unit	Test Method
Minimum Coating Weight (290°C)	6.0	g/m²	Internal Method
Neck-in ⁴ (290°C)	35.6	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/m ² coatings at 290°C set temperature.		
3.	Divide by coating weight in g/m2 to obtain actual WVTR.		
4.	at 100 m/min, 25 g/m ² coatings		

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