Dow Primacor® 1321 Ethylene Acrylic Acid (EAA)

Category : Polymer , Film , Thermoplastic , Ethylene Acrylic Acid

Material Notes:

PRIMACOR® 1321 polymer is an EAA copolymer (% comonomer 6.5) for blown and cast films. Its outstanding properties include, excellent sealability, toughness, adhesion and tear resistance. PRIMACOR 1321 is used as adhesive or sealant layer in Flexible packaging structures. It complies with FDA regulation 21 CFR 177.1310 (b) for food packaging.Film properties below based on a film thickness of 60 µm. Data provided by Dow Chemical.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-Primacor-1321-Ethylene-Acrylic-Acid-EAA.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in³	
Thickness	60.0 microns	2.36 mil	
Melt Flow	2.5 g/10 min @Load 2.16 kg	2.5 g/10 min @Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	20.3 MPa	2940 psi	Molded property
Film Tensile Strength at Yield, MD	9.40 MPa	1360 psi	
Film Tensile Strength at Yield, TD	9.20 MPa	1330 psi	
Tensile Strength, Yield	9.80 MPa	1420 psi	Molded property
Film Elongation at Break, MD	470 %	470 %	
Film Elongation at Break, TD	570 %	570 %	
Elongation at Break	660 %	660 %	Molded value
Elmendorf Tear Strength MD	255 g	255 g	
Elmendorf Tear Strength TD	305 g	305 g	
Elmendorf Tear Strength, MD	4.30 g/micron	109 g/mil	
Elmendorf Tear Strength, TD	5.10 g/micron	130 g/mil	
Dart Drop	6.80 g/micron	173 g/mil	
Film Tensile Strength at Break, MD	32.4 MPa	4700 psi	
Film Tensile Strength at Break, TD	32.8 MPa	4760 psi	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.3 °C	195 °F	

Optical Properties	Metric	English	Comments
Haze	3.7 %	3.7 %	
Gloss	75 %	75 %	45°

Processing Properties	Metric	English	Comments
Processing Temperature	191 °C	376 °F	Film extrusion temperature

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