

barex® 214 Calender Grade

Acrylonitrile Copolymer

INEOS Barex

Message:

Barex Calender Grade resin is an impact modified acrylonitrile-methyl acrylate copolymer with excellent gas barrier and a wide range of chemical resistance. It can easily be calendered into film and sheet for the production of high barrier packaging.

General Information			
Additive	Impact modifier		
Features	Good chemical resistance		
	Compliance of Food Exposure		
	Barrier resin		
Uses	Packaging		
	Films		
	Sheet		
	Bottle		
	Food packaging		
	Medical/nursing supplies		
Agency Ratings	EU 2002/96/EC (WEEE)		
	FDA Food Exposure, Not Rated		
	USP Class VI		
	European food contact, not rated		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Calendering		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Apparent Density	0.40	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 - 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	55.2	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength (Yield)	93.1	MPa	ASTM D790

Films	Nominal Value	Unit	Test Method
Oxygen Permeability (23°C, 100% RH)	0.47	cm ³ ·mm/m ² /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate	2.5	g·mm/m ² /atm/24 hr	ASTM F1249
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	320	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	73.9	°C	ASTM D648
1.8 MPa, not annealed	67.2	°C	ASTM D648
CLTE - Flow (20 to 80°C)	6.7E-5	cm/cm/°C	ASTM D696
Specific Heat (20°C)	1340	J/kg/°C	ASTM C351
Thermal Conductivity	0.25	W/m/K	ASTM C177
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 254 µm)	130		ASTM D2457
Transmittance (254 µm)	92.5	%	ASTM D1003
Haze (254 µm)	3.0	%	ASTM D1003
Yellowness Index (0.254 mm)	2.8	YI	ASTM D1925

Additional Information

Yield: 24056 in²-mil/lb Melt Index, ASTM D1238, 200°C/27.5 lbs: 3 g/10min Water Vapor Trans Rate, ASTM F1249-90, 100°F, 90% RH: 6.3 g-mil/100in²/24hrs Nitrogen Permeability, ASTM D3985, 73°F, 100% RH: 0.3 cm³-mil/100in²-24hrs-atm Carbon Dioxide Permeability, ASTM D3985, 73°F, 100% RH: 1.4 cm³-mil/100in²-24hrs-atm

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