

barex® 210 Injection Grade

Acrylonitrile Copolymer

INEOS Barex

Message:

Barex Injection 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 used in injection molding, injection blow molding, and injection stretch blow molding of high barrier containers and chemically resistant parts.

General Information	
Additive	Impact modifier
Features	Impact modification
	Good chemical resistance
	Compliance of Food Exposure
	Barrier resin
Uses	Container
	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	Injection blowing molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Apparent Density	0.66	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (200°C/21.6 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 - 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	60		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	65.5	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790

Flexural Strength (Yield)	96.5	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Oxygen Permeability (23°C, 100% RH)	0.31	cm ³ ·mm/m ² /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate	2.0	g·mm/m ² /atm/24 hr	ASTM F1249
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	74.4	°C	ASTM D648
1.8 MPa, not annealed	66.1	°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)	120		ASTM D2457
Transmittance (254 µm)	92.5	%	ASTM D1003
Haze (254 µm)	2.7	%	ASTM D1003
Yellowness Index (0.254 mm)	2.5	YI	ASTM D1925
Additional Information			

Yield: 24080 in²-mil/lb Melt Index, ASTM D1238, 200°C/27.5 lbs: 12 g/10min Water Vapor Trans Rate, ASTM F1249, 100°F, 90% RH: 5 g-mil/100in²at-d Nitrogen Permeability, ASTM D3985, 73°F, 100% RH: 0.2 cm³-mil/100 in²-24 hrs-atm Carbon Dioxide Permeability, ASTM D3985, 73°F, 100% RH: 1.2 cm³-mil/100 in²-24 hrs-atm

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

