

Ineos Barex[®] 210 E Acrylonitrile-Methyl Acrylate Copolymer

Category : Polymer , Thermoplastic , ABS Polymer , Acrylic (PMMA) , Acrylonitrile-Methyl Acrylate Copolymer

Material Notes:

Extrusion Grade. Barex[®] Resins are available in either natural or blue tint. Barex[®] 210E is most commonly used for thermoformed sheet applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-Barex-210-E-Acrylonitrile-Methyl-Acrylate-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	
Apparent Bulk Density	0.670 g/cc	0.0242 lb/in ³	
Moisture Vapor Transmission	3.00 cc-mm/m ² -24hr-atm	7.62 cc-mil/100 in ² -24hr-atm	
Oxygen Transmission	0.600 cc-mm/m ² -24hr-atm	1.52 cc-mil/100 in ² -24hr-atm	
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	ASTM D955
Melt Flow	3.0 g/10 min @Load 12.5 kg, Temperature 200 °C	3.0 g/10 min @Load 27.6 lb, Temperature 392 °F	2 mm x 8 mm

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	60	60	
Hardness, Rockwell R	115	115	
Hardness, Shore D	86	86	
Tensile Strength, Yield	65.0 MPa	9430 psi	
Elongation at Break	3.0 %	3.0 %	
Flexural Yield Strength	95.0 MPa	13800 psi	
Flexural Modulus	3.40 GPa	493 ksi	
Compressive Yield Strength	83.0 MPa	12000 psi	
Izod Impact, Notched	5.00 J/cm	9.37 ft-lb/in	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.80 J/g-°C	0.430 BTU/lb-°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	77.0 Â°C	171 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	69.0 Â°C	156 Â°F	ASTM D648
Vicat Softening Point	83.0 Â°C	181 Â°F	

Optical Properties	Metric	English	Comments
Refractive Index	1.511	1.511	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.90e+15 ohm-cm	1.90e+15 ohm-cm	
Surface Resistance	>= 2.00e+17 ohm	>= 2.00e+17 ohm	
Dielectric Constant	5.2	5.2	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.070	0.070	
	@Frequency 100 Hz	@Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	200 Â°C	392 Â°F	

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