barex® 218 Extrusion Grade

Acrylonitrile Copolymer

INEOS Barex

Message:

Barex 218 Extrusion Grade resin is an impact modified acrylonitrile-methyl acrylate copolymer with increased flexibility and higher impact resistance than the standard Barex 210 resins. It combines excellent gas barrier properties with a wide range of chemical resistance. It can be used for producing high barrier packaging by film and sheet extrusion, thermoforming, and extrusion blow molding.

General Information	
Additive	Impact modifier
Features	Impact modification Impact resistance, high Good flexibility 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	Film extrusion Extrusion blow molding Sheet extrusion molding Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm³	ASTM D792
Apparent Density	0.64	g/cm³	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)	45		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	51.7	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus	2690	MPa	ASTM D790
Flexural Strength (Yield)	94.5	MPa	ASTM D790
Films	**Nominal Value**	**Unit**	**Test Method**
Oxygen Permeability (23°C, 100% RH)	0.63	$cm^3 \cdot mm/m^2/atm/24\ hr$	ASTM D3985
Water Vapor Transmission Rate	3.0	$g \cdot mm/m^2/atm/24\ hr$	ASTM F1249
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	480	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	71.1	°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)	145		ASTM D2457
Transmittance (254 µm)	92.5	%	ASTM D1003
Haze (254 µm)	3.0	%	ASTM D1003
Yellowness Index (0.254 mm)	3.0	YI	ASTM D1925

Additional Information

Yield: 24950 in^2-mil/lbMelt Index, ASTM D1238, 200°C/27.5 lbs, 3 g/10minWater Vapor Trans Rate, ASTM F1249-90, 100°F, 90% RH: 7.5 g-mil/100in^2/24hrsNitrogen Permeability, ASTM D3985, 73°F, 100% RH: 0.4 cm^3-mil/100in^2-24hrs-atmCarbon Dioxide Permeability, ASTM D3985, 73°F, 100% RH: 1.6 cm^3-mil/100in^2-24hrs-atm

Recommended distributors for this material

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