

Technical Information

IONIA™ 1273B

Ionomer

Description

IONIA™ 1273B ionomer is an ethylene acrylic acid based ionomer, designed for injection molding applications with very high stiffness and impact strength. SK IONIA 1273B ionomer provides excellent transparency and mechanical properties.

Ion type

- Sodium Ionomer

Typical Properties¹⁾

	Nominal Values	Test Method		Test Method
Physical	Density	0.950 g/cm ³	0.950 g/cm ³	ASTM D792
	Melt Index (2.16 kg @190°C)	2.1 g/10min	2.1 g/10min	ASTM D1238
	Hardness (Shore D)	68	68	ASTM D2240
Thermal	Vicat Softening Point	135 °F	57 °C	ASTM D1525
	Melting Point (DSC)	181 °F	83 °C	SK Method
Optical	Haze (1mmT)	<0.5	<0.5	ASTM D1003

Injection molding guide²⁾

Injection conditions	Unit	Value	
Melting Temperature range	°C	90-110	
Cylinder Temperature	Barrel 3	°C	170-200
	Barrel 2	°C	170-200
	Barrel 1	°C	170-200
Nozzle Temperature	°C	140-170	
Mold Temperature	°C	25-35	

1) Typical properties: these are not to be construed as specifications. The physical properties are highly dependent on the manufacturing conditions. Customers should confirm performances by their own tests.

2) These Injection molding processing conditions are for reference only; specific processing conditions depend on the injection machine type.

