

Generic Ionomer

Ionomer

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic Ionomer

This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.938 - 0.971	g/cm ³	ASTM D792
23°C	0.940 - 0.970	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	0.65 - 14	g/10 min	ASTM D1238
190°C/2.16 kg	0.80 - 14	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (23°C)	60 - 65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	13.0 - 45.0	MPa	ASTM D638
Fracture, 23°C	10.3 - 33.1	MPa	ASTM D638
Fracture, 23°C	21.8 - 22.2	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	400 - 410	%	ASTM D638
Fracture, 23°C	400	%	ISO 527-2
Flexural Modulus (23°C)	207 - 761	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Tensile Strength			
MD: Fracture	33.6 - 38.6	MPa	ASTM D882
TD: Fracture	26.5 - 40.7	MPa	ASTM D882
Tensile Elongation			
MD: Fracture	250 - 350	%	ASTM D882
TD: Fracture	250 - 410	%	ASTM D882
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	59.5 - 81.3	°C	ASTM D1525
--	59.5 - 79.0	°C	ISO 306
Peak Melting Temperature	86.3 - 101	°C	ASTM D3418, ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze	2.7 - 4.2	%	ASTM D1003

Injection	Nominal Value	Unit
Processing (Melt) Temp	210 - 264	°C
Mold Temperature	26.7 - 38.3	°C

Injection instructions

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Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	135 - 160	°C
Cylinder Zone 2 Temp.	160 - 210	°C
Cylinder Zone 3 Temp.	185 - 236	°C
Cylinder Zone 4 Temp.	185 - 236	°C
Cylinder Zone 5 Temp.	185 - 236	°C
Adapter Temperature	185 - 235	°C
Melt Temperature	198 - 237	°C
Die Temperature	185 - 236	°C

Extrusion instructions

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