

Edge™ 8

Thermoplastic

Plastic Selection Group, Inc.

Message:

Edge™ Copolymer is a clear thermoplastic resin that combines crystal clarity and rigidity with superior toughness. Edge™ 8 products were designed to compete with the slightly more brittle resins like GPPS, SAN, or General Purpose Acrylic.

General Information			
Features	Copolymer Food Contact Acceptable Good Stiffness Good Toughness High Clarity		
Agency Ratings	FDA 21 CFR 177.1830 NSF 51		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2890	MPa	ASTM D638
Tensile Strength (Yield)	63.0	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength (Yield)	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C, 0.125 mm)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	93.0	°C	ASTM D648
Vicat Softening Temperature	104	°C	ASTM D1525 ¹
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	93.0	%	ASTM D1003
Haze	0.50	%	ASTM D1003
Injection	Nominal Value	Unit	Test Method

Rear Temperature	182 to 188	°C
Middle Temperature	188 to 199	°C
Front Temperature	193 to 204	°C
Nozzle Temperature	193 to 215	°C
Processing (Melt) Temp	204 to 221	°C
Mold Temperature	27.0 to 38.0	°C
Back Pressure	0.340 to 1.38	MPa
Screw Speed	40 to 80	rpm

NOTE

1. Loading 1 (10 N)

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Recommended distributors for this material

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