

Cleapact TI-500A

Styrene Butadiene Block Copolymer

DIC Corporation

Message:

Developed with our unique polymerization technology, Cleapact is a type of styrene copolymer resin that excels in the balance of transparency, shock-resistance and molding capacity. Products in this category have a variety of positive characteristics and meet diverse range of user needs.

General Information			
Features	Food Contact Acceptable		
	High Clarity		
	Shock Resistant		
Uses	Consumer Applications		
	Food Containers		
Appearance	Clear/Transparent		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	3.5	g/10 min	ISO 1133
Molding Shrinkage	0.30 to 0.70	%	Internal Method
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	69		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Injection Molded	47.0	MPa	
Break, Injection Molded	33.0	MPa	
Tensile Strain (Break, Injection Molded)	15	%	ISO 527-2
Flexural Modulus (Injection Molded)	2430	MPa	ISO 178
Flexural Stress (Injection Molded)	71.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Injection Molded)	10	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	85.0	°C	ISO 306
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (Injection Molded)	89.0	%	JIS K7105
Haze (Injection Molded)	2.5	%	JIS K7105

Injection	Nominal Value	Unit
Drying Temperature	75.0	°C
Drying Time	3.0	hr
Extrusion	Nominal Value	Unit
Drying Temperature	75.0	°C
Drying Time	3.0	hr

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