

Cleapact TI-300S-1

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		
	Good Impact Resistance		
	Good Moldability		
	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)	5.0	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)	64		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Injection Molded	45.0	MPa	
Break, Injection Molded	30.0	MPa	
Tensile Strain (Break, Injection Molded)	15	%	ISO 527-2
Flexural Modulus (Injection Molded)	2350	MPa	ISO 178
Flexural Stress (Injection Molded)	66.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Injection Molded)	11	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	76.0	°C	ISO 306
Optical	Nominal Value	Unit	Test Method
Transmittance (Injection Molded)	88.0	%	JIS K7105
Haze (Injection Molded)	3.0	%	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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