

Cleapact TI-300S

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 Moldability High Clarity Shock Resistant		
Uses	Food Packaging Packaging		
Appearance	Clear/Transparent		
Processing Method	Extrusion		
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)	68		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Injection Molded	49.0	MPa	
Break, Injection Molded	32.0	MPa	
Tensile Strain (Break, Injection Molded)	15	%	ISO 527-2
Flexural Modulus (Injection Molded)	2450	MPa	ISO 178
Flexural Stress (Injection Molded)	69.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Injection Molded)	9.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	81.0	°C	ISO 306
Optical	Nominal Value	Unit	Test Method
Transmittance (Injection Molded)	89.0	%	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

