

Cleapact TS-50 E

Polystyrene Alloy

DIC Corporation

Message:

CLEARPACT, developed by DIC's polymerization techniques, is a styrene-based copolymer resin with a superb balance between transparency and moldability. It has a lower water absorption rate when compared to acrylic resins. It can meet the varied needs of our customers in optical materials and daily goods.

General Information			
Features	Good Moldability		
	High Clarity		
	Low to No Water Absorption		
Uses	Electrical/Electronic Applications		
	Food Containers		
	Optical Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	2.0	g/10 min	ISO 1133
Molding Shrinkage	0.30 to 0.70	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	71		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, Injection Molded)	64.0	MPa	ISO 527-2
Tensile Strain (Break, Injection Molded)	4.0	%	ISO 527-2
Flexural Modulus (Injection Molded)	3450	MPa	ISO 178
Flexural Stress (Injection Molded)	104	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Injection Molded)	2.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ISO 306
Optical	Nominal Value	Unit	Test Method
Transmittance (Injection Molded)	91.0	%	JIS K7105
Haze (Injection Molded)	0.30	%	JIS K7105
Injection	Nominal Value	Unit	
Drying Temperature	75.0	°C	

Drying Time	3.0	hr
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