

Styrene Copolymer Resin

List of Properties of Cleapact by Stock Number



Test Particulars	Unit	Test Method	Standard	Good Molding Extrusion	Good Molding High Impact	High Transparency High Impact	High Rigidity
			TI-300	TI-300S	TI-300S-1	TI-500A	TS-50
Melt Mass-flow Rate (MFR)	g/10min	JIS K7210:99 ISO 1133:97	3.0	3.5	5.0	3.5	2.0
Tensile Stress at Yield	MPa	JIS K7161:94 ISO 527-1:93 JIS K7162:94 ISO 527-2:93	51	49	45	47	—
Tensile Stress at Break	MPa		35	32	30	33	64
Tensile Strain at Break	%		15	15	15	15	4
Flexural Strength	MPa	JIS K7171:94 ISO 178:93	75	69	66	71	104
Flexural Modulus	MPa		2,500	2,450	2,350	2,430	3,450
Charpy Impact Strength	kJ/m ²	JIS K7111:96 ISO 179:96	8	9	11	10	2
Rockwell Hardness (L Scale)	—	JIS K7202:95 ISO 2039-2:87	75	68	64	69	71(*1)
Vicat Softening Temperature	°C	JIS K7206:99 ISO 306:94	86	81	76	85	95
Total Luminous Transmittance	%	JIS K7105:81	89	89	88	89	91
Haze	%	JIS K7105:81	3.0	3.0	3.0	2.5	0.3
Specific Gravity	kg/m ³	JIS K7112:99 ISO 1183-1:04	1090	1090	1090	1090	1120
Water Absorption	%	JIS K7209:00 ISO 62:99	0.2	0.2	0.2	0.2	0.2
Molding Shrinkage	%	DIC Method	0.3 - 0.7	0.3 - 0.7	0.3 - 0.7	0.3 - 0.7	0.3 - 0.7
UL Specification	—	UL94	HB	—	—	HB	—
Food Sanitation Certificate	—	Notice of the Ministry of Health, Labor and Welfare No.370	○	○	○	○	○
Examples of Use			Food packaging	Packaging of electric parts Food packaging	Food container Miscellaneous goods Daily necessities	Food container Miscellaneous goods Daily necessities	Food packaging Miscellaneous goods

● The property values shown in this table are typical values obtained from a injection specimen in compliance with a specific test method. The values do not indicate the standard.

● The specimen is based on JIS K7139:1996 (ISO 3167:1993) and was made in accordance with JIS K7152:1999 (ISO 294-1:1996).

● Cleapact absorbs water and needs to be dried beforehand. The recommended drying condition is 75 degrees over three hours.

*1: Only the Rockwell hardness of TS-50 is measured using the M scale.