

Pharmaceutical Container

●TN-8065S

Introduction

Teijin has developed a number of resin businesses centered on the polycarbonate resin Panlite®, first commercialized by Teijin in Japan in 1960. Teijin has been researching and developing in the medical field for over 30 years. Based on the Company's pioneering spirit of making the impossible possible, Teijin provides solutions that support advanced medical care to meet the needs of its customers.





PEN Transparent Grade

Polyethylene naphthalate (PEN) resin is a material with excellent chemical resistance, gas-barrier properties, and low adsorption.

	Transparency	Heat- resistant	Chemical resistance	Gas-barrier properties	Low adsorption
PEN					
PC					
PET					
COC*					
PEI*					

^{*} COC: Cyclic olefin copolymer PEI: Polyetherimide

PEN Grade - Physical Properties

	Unit	Standard	Measurement conditions	PEN Resin	COC	PEI
Property				General grade TN-8065S		
Density	kg/m³	IS01183	_	1,330	1,000	1,270
MVR	cm ³ /10min.	IS01133	300°C、2.16kgf	5		
Tensile strength	MPa	IS0527-1	50mm/min.	80	60	105
Tensile yield distortion	%	IS0527-2		50	3	60
Flexural strength	MPa	IS0178	2mm/min.	98	99	160
Flexural modulus	MPa	130170		2,200	2,480	3,300
Charpy impact	kJ/m²	ICO170	Notched	3	3	
strength	kJ/m²	IS0179	Unnotched	NB	39	
Heat deflection temperature	$^{\circ}$ C	IS075-1	1.8MPa	92	139	190
		IS075-2	0.45MPa	107	152	200
Moisture vapor transmission rate	g•mm/(m²•24hr)	JIS	40°C、90%RH	0.3	0.1	
Oxygen transmission rate	cm³•mm/(m²•day.MPa)	K7126-1	23°C、50%RH	12	200	2,000
Dimensional change rate	%	In house method	132°C、0.4hr	5	0	0

^{*}The values listed are typical values, guaranteed values.