


Ceramic Rods / Transparent Resin Rods

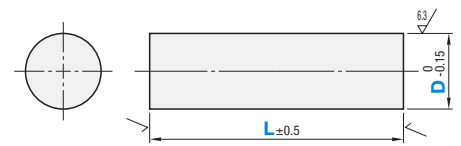
Ceramic Rods excel in insulation, abrasion resistance and heat resistance; Resin Rods excel in transparency and insulation.



Ceramic Rod

CERAR

RoHS 10



Material: Alumina 99.5


Part Number	D	L
Type	Specify in 1 mm Increment	
CERAR	3	30-300
	4	
	5	
	6	
	8	
	10	

Part Number Example: CERAR6 - 200

Physical Properties of Alumina 99.5

Properties	Unit	Alumina 99.5
Water Absorption Ratio	%	0
Bulk Density	g/cm ³	3.9
Heat Resistance	°C	1000-1200
Compression Strength	KN/cm ²	363
Bending Strength	KN/cm ²	49
Linear Thermal Expansion Coefficient	—	8.0 x 10 ⁻⁶ (25-700°C)
Thermal Conductivity	W/(m · °C)	31.4 (20°C) 16.0 (300°C)
Specific Volume Resistivity	Ω·cm	1014 < (20°C) 1014 < (300°C)
Dielectric Constant	1MHz	9.8
Insulation Resistance	KV/mm	10

Washers / Collars (P.2306), Bushings for Locating Pins (P.1538), Circular Plates (P.3874) are available.
Physical property values are representative values (reference values).

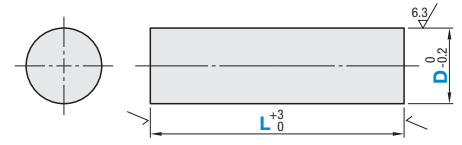


Transparent Resin Rods

RoHS 10

Type	Material	Color
RDJA	Acrylic - Standard	Transparent
RDJC	Polycarbonate - Standard	

The acrylic rod is made by machining the cast plate into a round rod and finished by centerless grinding.



For Characteristic Values, refer to P.3072

Part Number	D	L
Type	Specify in 1 mm Increment	
RDJA Acrylic, Standard	3	10-250
	4	
	5	
	6	
	8	
	10	
RDJC Polycarbonate, Standard	12	10-500
	13	
	15	
	16	
	18	
	20	
	25	10-600
	30	


The end face is not transparent because tooling marks remain on the surface.

Part Number Example: RDJA3 - 250

Resin Pipes

Polycarbonate / Acrylic / Unfinished Bore and Exterior Surface

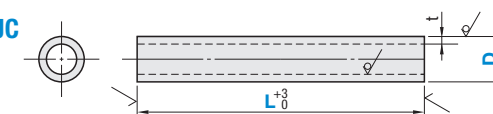
Polycarbonate and Acrylic Pipes excel in impact resistance and transparency. These Polyacetal and MC Nylon pipes are used for various industrial purposes.



Polycarbonate Pipes

RoHS 10

Part Number	Material	Grade	Color
PIJC	Polycarbonate	Standard	Transparent
PIJA	Acrylic		



PIJC


For Material Properties, refer to P.3072.
Material: Polycarbonate, Standard (Transparent)

Part Number	D Selection	D Tolerance	L 1 mm Increment	t	t Tolerance	V			
PIJC Polycarbonate	13	±0.2	50-1000	2.0	±0.2	9			
	18					14			
	22					18			
	26	22							
	32	±0.3		50-1000	2.5	±0.3	27		
	34						29		
	38				3.0	50-1000	3.0	±0.3	32
	42								36

Features

Ranks the highest in impact resistance among the transparent resin materials. (Approx. 30 times higher than that of acrylic plates)
It excels in high and low temperature resistances, and has the widest applicability.

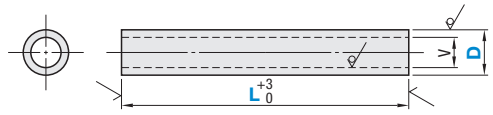
Part Number	D Selection	D Tolerance	L 1 mm Increment	t	t Tolerance	V
PIJC Polycarbonate	48	±0.4	50-1000	3.5	±0.4	41
	60					52
	76					65
	89					77



Acrylic Pipes

RoHS 10

Part Number	Material	Grade	Color
PIJA	Acrylic	Standard	Transparent




PIJA

For Material Properties, refer to P.3072.
Material: Acrylic, Standard (Transparent)

Part Number	D Selection	D Tolerance	L 1 mm Increment	t	V	V Tolerance
PIJA	15	±0.3	50-1000	3	9	±0.8
	20				14	
	25				19	
	30				24	
	35				29	
	40	34		±1.0		
	50	40				

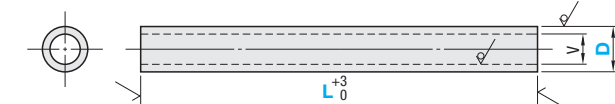
Part Number	D Selection	D Tolerance	L 1 mm Increment	t	V	V Tolerance
PIJA	55	±0.5	50-1000	5	45	±1.0
	60				50	
	70				60	
	80	70				
	90	80				
	100	90				



Unfinished Bore and Exterior Surface

RoHS 10

Part Number	Material	Color
FPIJJ	Polyacetal, Standard	White
FPIJM	MC Nylon, Standard	Blue



FPIJM

Bore and exterior surfaces are unfinished. For Bore and Exterior Surface Finished Type, refer to P.2508.
For Material Properties, refer to P.3068.

Part Number	D Selection	D Tolerance	L 1 mm Increment	V	V Tolerance		
FPIJJ Polyacetal, Standard	30	+2.0 0	100-1000	20	0 -2.5		
	40			30			
	50			40			
	60	+3.0 0		100-1000	50	0 -3.0	
	70				60		
	80				70		
	90	+3.5 0		100-1000	80	0 -4.0	
	100				90		
						100	0 -5.0

Part Number	D Selection	D Tolerance	L 1 mm Increment	V	V Tolerance
FPIJM MC Nylon, Standard	30	+2.0 +0.1	100-350	15	-1.0 -6.0
	40			20	
	50			25	
	60	30			
	70	35			
	80	40			
	90	45			
	100	50			

Part Number Example: PIJC22 - 200
PIJA20 - 100
FPIJJ - D50 - L550