

ShinkoLite-P UT-300

Polymethyl Methacrylate Acrylic
Mitsubishi Rayon America Inc.

Message:

ShinkoLite-P UT-300 is a Polymethyl Methacrylate Acrylic material. It is available in North America for extrusion or injection molding.
Important attributes of ShinkoLite-P UT-300 are:
Low to No Odor/Taste
Chemical Resistant
Good Dimensional Stability
Good Processability
Good Weather Resistance
Typical applications include:
Engineering/Industrial Parts
Hose/Tubing

General Information	
UL YellowCard	E54695-244822
Features	Good Chemical Resistance
	Good Dimensional Stability
	Good Flow
	Good Impact Resistance
	Good Moldability
	Good Weather Resistance
	High Gloss
	High Heat Resistance
	Low to No Odor
	Low to No Taste
Uses	Rods
	Tubing
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	3.9	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Water Absorption (24 hr)	1.8	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	74.6	MPa	ASTM D638
Tensile Elongation (Break)	8.8	%	ASTM D638
Flexural Modulus	3240	MPa	ASTM D790
Flexural Strength (Yield)	118	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance	93.0	%	ASTM D1003
Haze	0.30	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	240 to 270	°C	
Middle Temperature	240 to 270	°C	
Front Temperature	240 to 270	°C	
Mold Temperature	70.0 to 100	°C	
Injection Pressure	78.3 to 138	MPa	

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Recommended distributors for this material

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