

ShinkoLite-P UT-200

Polymethyl Methacrylate Acrylic

Mitsubishi Rayon America Inc.

Technical Data

General

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)	2.4 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.50 %	ASTM D955
Water Absorption (24 hr)	1.8 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	76.6 MPa	ASTM D638
Tensile Elongation (Break)	5.0 %	ASTM D638
Flexural Modulus	3190 MPa	ASTM D790
Flexural Strength (Yield)	118 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact	15 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	101	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	115 °C	ASTM D648

Optical	Nominal Value Unit	Test Method
Refractive Index	1.500	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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