



**Manufacturer:**  
UNITIKA

**Product Name:**  
UNITIKA U-polymer T-200 Optical Plastic, 1.58 Refractive Index - 25 kg bag

**Manufacturer Part Number:**  
T-200-25KG

▶ [Click here for more details on the UNITIKA U-polymer T-200 Optical Plastic, 1.58 Refractive Index - 25 kg bag](#)

## T-200

UNITIKA POLYARYLATE  
**U-POLYMER**

Type : Transparency, Super high heat resistance, Reflowable  
Resin identification : PAR

Properties	Test conditions	Standards	Units	Value	
Mechanical properties	Tensile strength	Yield Break	MPa	80	
	Tensile modulus	—		MPa	2300
	Tensile strain	Yield	ISO 527-1,-2	%	10
		Break		%	15
	Flexural strength	—	ISO 178	MPa	112
	Flexural modulus	—		MPa	2300
	Charpy impact strength	Unnotched	ISO 179-1eU	kJ/m <sup>2</sup>	6
Notched		ISO 179-1eA			
Rockwell hardness	R-scale	ISO 2039	—		
Thermal properties	Coefficient of linear thermal expansion	Parallel	ISO 11359-2	10 <sup>-4</sup> /°C	0.7
		Transverse		10 <sup>-4</sup> /°C	0.7
	Deflection temperature under load	1.8MPa	ISO 75-1,-2	°C	250
		0.45MPa		°C	258
Vicat softening temperature	50N, 120°C/h	ISO 306	°C	261	
Glass-transition temperature	—	DSC	°C	265	
Electrical properties	Volume resistivity	—	IEC 60093	Ω·m	10 <sup>14</sup>
	Electrical strength	1mmt	IEC 60243-1	kV/mm	
	Relative permittivity	10 <sup>6</sup> Hz	IEC 60250	—	2.8
	Dissipation factor	10 <sup>6</sup> Hz	IEC 60250	—	0.02
	Comparative tracking Index	—	IEC 60112	—	
Other properties	Density	—	ISO 1183	g/cm <sup>3</sup>	1.12
	Water absorption	23°C, immersion 24h	ISO 62	%	0.35
	Mold shrinkage	Parallel	Unitika method 3mmt	%	0.6~0.8
		Transverse			0.6~0.8
	Luminous transmittance	3mmt	ASTM D1003	%	87
	Refractive index	—	V-block method	—	1.58
	Melt flow rate	380°C, 2.16kg	ISO 1133	g/10min	2.7
Flammability	—	UL94 File No. E47924	—	HB (at 1.5mmt, all colors)	
Molding conditions	Cylinder temperature	—	°C	390~420	
	Mold temperature	—	°C	150~230	
	Pellets drying condition	—		150°C × 6~24h (pellets water absorption 200ppm or less)	

ATTENTION : All the data mentioned in this data sheet are the representative values of the in-house tests we conducted using our own specimens, and do not guarantee the product performance for any particular applications.

**Contact the professionals at Fiber Optic Center for a quote or to get more details.**

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Product specifications and data are subject to change without notice.  
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