


Tarflon® URZ2501

 Idemitsu Chemicals - *Polycarbonate*

 Unit:
General Information
General

Material Status	● Commercial: Active
Availability	● Asia Pacific ● Europe ● North America
Features	● Bromine Free ● High Reflectivity ● Flame Retardant ● Low (to None) Phosphorus Content
Uses	● LCD Applications ● LEDs
UL File Number	● E48268
Processing Method	● Injection Molding
Resin ID (ISO 1043)	● >PC-MD20<

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR)	32.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.50 to 0.70	%	
Flow: 2.00 mm	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	50.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	70	%	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Flexural Strength	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	30	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	136	°C	ISO 75-2/B
Heat Deflection Temperature (1.8 MPa, Unannealed)	125	°C	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.00 mm)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	5.0	hr
Rear Temperature	240	°C
Middle Temperature	260	°C
Front Temperature	280	°C
Nozzle Temperature	270	°C
Mold Temperature	40.0 to 80.0	°C
Screw Speed	60 to 100	rpm

Notes
¹ Typical properties: these are not to be construed as specifications.