

RTP 300

Polycarbonate

RTP Company

Technical Data

Product Description

Unreinforced

General

RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

Physical

	Nominal Value Unit	Test Method
Specific Gravity	1.19 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10 to 12 g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.60 to 0.90 %	ASTM D955
Moisture Content	0.020 %	

Mechanical

	Nominal Value Unit	Test Method
Tensile Modulus	2210 MPa	ASTM D638
Tensile Strength	58.6 MPa	ASTM D638
Tensile Elongation (Yield)	> 10 %	ASTM D638
Flexural Modulus	2340 MPa	ASTM D790
Flexural Strength	93.1 MPa	ASTM D790

Impact

	Nominal Value Unit	Test Method
Notched Izod Impact (3.20 mm)	800 J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	No Break	ASTM D4812

Thermal

	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	132 °C	ASTM D648

Flammability

	Nominal Value Unit	Test Method
Flame Rating 1.5 mm, ** Values per RTP Company testing.	HB	UL 94

Injection

	Nominal Value Unit
Drying Temperature	121 °C
Drying Time	4.0 hr
Dew Point	-29 °C
Processing (Melt) Temp	288 to 316 °C
Mold Temperature	82 to 121 °C
Injection Pressure	68.9 to 103 MPa

Injection Notes

Desiccant Type Dryer Required.

Notes

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