

RTP Compounds 605

Acrylonitrile Butadiene Styrene

RTP Company



Prospector

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America • South America
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight		
RoHS Compliance	• Contact Manufacturer		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.27	1.27 g/cm ³	ASTM D792
Molding Shrinkage - Flow (0.125 in (3.18 mm))	0.0010 to 0.0020 in/in	0.10 to 0.20 %	ASTM D955

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.30E+6 psi	8960 MPa	ASTM D638
Tensile Strength	14000 psi	96.5 MPa	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0 %	1.0 to 2.0 %	ASTM D638
Flexural Modulus	1.20E+6 psi	8270 MPa	ASTM D790
Flexural Strength	19500 psi	134 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.125 in (3.18 mm))	1.2 ft-lb/in	64 J/m	ASTM D256
Unnotched Izod Impact (0.125 in (3.18 mm))	5.0 ft-lb/in	270 J/m	ASTM D4812

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	200 °F	93.3 °C	ASTM D648

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating - UL 0.0591 in (1.50 mm), Values per RTP Company testing.	HB	HB	UL 94

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 °F	82.2 °C
Drying Time	2.0 hr	2.0 hr
Suggested Max Moisture	0.10 %	0.10 %
Processing (Melt) Temp	400 to 460 °F	204 to 238 °C
Mold Temperature	145 to 185 °F	62.8 to 85.0 °C
Injection Pressure	10000 to 15000 psi	68.9 to 103 MPa

Injection Notes
Desiccant Type Dryer Required. Dew Point: 0°F

Notes

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