

# Technical Data Sheet Matrixx 55S5202

Polycarbonate  
Engineering Plastics



General	
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.37	1.37 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12 g/10 min	12 g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in (3.18 mm))	1.0E-3 to 3.0E-3 in/in	0.10 to 0.30 %	Internal Method

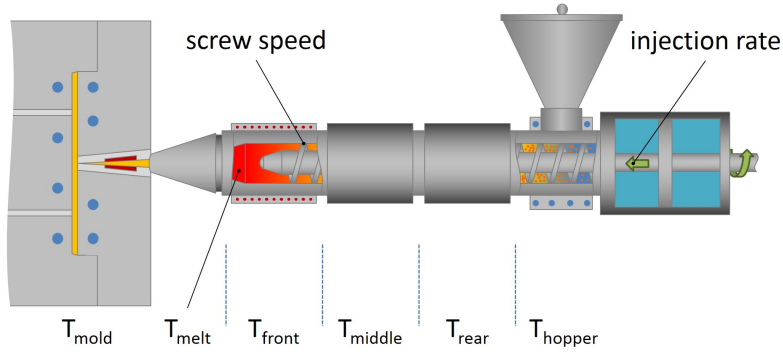
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	14000 psi	96.5 MPa	ASTM D638
Flexural Modulus - Tangent	750000 psi	5170 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	2.0 ft-lb/in	110 J/m	ASTM D256

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	300 °F	149 °C	
264 psi (1.8 MPa), Unannealed	290 °F	143 °C	
RTI Str	200 °F	93.3 °C	UL 746

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm)	V-0	V-0	
0.12 in (3.0 mm)	5VA	5VA	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	250 °F	121 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Rear Temperature	540 to 590 °F	282 to 310 °C
Middle Temperature	540 to 590 °F	282 to 310 °C
Front Temperature	540 to 590 °F	282 to 310 °C
Processing (Melt) Temp	560 to 610 °F	293 to 321 °C
Mold Temperature	160 to 220 °F	71 to 104 °C
Injection Rate	Slow-Moderate	Slow-Moderate
Back Pressure	50.0 to 100 psi	0.345 to 0.689 MPa
Cushion	0.250 to 0.500 in	6.35 to 12.7 mm

**Injection Notes**

-20°F Dewpoint

**Notes**

These are typical property values not to be construed as specification limits.