Technical Data Sheet

Matrixx 12N7006

Polypropylene Copolymer
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Flame Retardant		
Features	• Flame Retardant	• High Flow	• High Impact Resistance

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.940	0.938 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20 g/10 min	20 g/10 min	ASTM D1238
Molding Shrinkage - Flow			Internal Method
73°F (23°C), 0.125 in (3.18 mm)	1.6E-3 to 2.2E-3 in/in	0.16 to 0.22 %	
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength			ASTM D638
Yield, 73°F (23°C), 0.125 in (3.18 mm)	2400 psi	16.5 MPa	
Tensile Elongation			ASTM D638
Yield, 73°F (23°C), 0.125 in (3.18 mm)	8.0 %	8.0 %	
Flexural Modulus - Tangent			ASTM D790
73°F (23°C), 0.125 in (3.18 mm)	110000 psi	758 MPa	
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm)	No Break	No Break	
Gardner Impact			ASTM D5420
73°F (23°C), 0.125 in (3.18 mm)	160 in·lb	18.1 J	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	175 °F	79.4 °C	
RTI Elec (0.06 in (1.5 mm))	239 °F	115 °C	UL 746
RTI Imp (0.06 in (1.5 mm))	239 °F	115 °C	UL 746
RTI Str (0.06 in (1.5 mm))	239 °F	115 °C	UL 746
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.5 mm))	V-2	V-2	UL 94

Notes

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