



INSPIRE™ TF1301

Trinseo - Performance Polymers

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Talc
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.967		ASTM D792B
Density	0.965	g/cm ³	ISO 1183
Melt Mass-Flow Rate (230°C/2.16 kg)	17	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	17	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	2350	psi	ASTM D638
Tensile Stress (Yield)	2350	psi	ISO 527-2
Tensile Elongation (Yield)	10	%	ASTM D638
Tensile Strain (Yield)	10	%	ISO 527-2
Flexural Modulus	125000	psi	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	No Break		ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	185	°F	ASTM D648
Heat Deflection Temperature (66 psi, Unannealed)	185	°F	ISO 75-2/B

Notes

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