

## Ineos ABS NOVODUR® P3T ABS, Injection Grade (discontinued \*\*)

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

### Material Notes:

Injection molding grade, higher heat resistance. Applications: Automotive industry. Information provided by the manufacturer. Novodur is produced by Styrolution (2014). This grade was discontinued prior to Styrolution's acquisition of the Novodur product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-ABS-NOVODUR-P3T-ABS-Injection-Grade-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ineos-ABS-NOVODUR-P3T-ABS-Injection-Grade-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in <sup>3</sup>	
Water Absorption	0.30 %	0.30 %	Saturation in water
Water Absorption at Saturation	0.30 %	0.30 %	
Melt Flow	2.0 g/10 min @Load 10.0 kg, Temperature 220 °C	2.0 g/10 min @Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	53.0 MPa	7690 psi	
Elongation at Yield	2.8 %	2.8 %	
Tensile Modulus	2.80 GPa	406 ksi	
Charpy Impact Unnotched	NB	NB	
	0.400 J/cm <sup>2</sup> @Temperature -30.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	
Charpy Impact, Notched	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	
Tensile Creep Modulus, 1 hour	2500 MPa	363000 psi	
Tensile Creep Modulus, 1000 hours	1900 MPa	276000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	108 °C	226 °F	
Deflection Temperature at 1.8 MPa (264 psi)	101 °C	214 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.0	3.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	33.0 kV/mm	838 kV/in	
Dissipation Factor	0.0050	0.0050	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.0060	0.0060	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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