

## Ineos ABS Triax<sup>®</sup> 1185 ABS/Nylon Alloy, Injection Molding Grade

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS)/Nylon Blend , Nylon

### Material Notes:

Triax<sup>®</sup> 1185 resin is an ABS (Acrylonitrile Butadiene Styrene)/Nylon 6 alloy for injection molding. It is a semicrystalline thermoplastic with excellent processability, good chemical resistance, good fatigue performance, and excellent abrasion characteristics. Triax<sup>®</sup> 1185 resin has excellent impact resistance across a broad temperature range and excellent surface appearance. Triax<sup>®</sup> 1185 resin is designed for use in large parts requiring a smooth finish and consistent appearance. Typical applications include components for recreational vehicles, snowmobiles, sporting goods, and a variety of parts for industrial and consumer applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-ABS-Triax-1185-ABS-Nylon-Alloy-Injection-Molding-Grade.php](http://www.lookpolymers.com/polymer_ineos-ABS-Triax-1185-ABS-Nylon-Alloy-Injection-Molding-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM-D792
Density	1.08 g/cc	0.0390 lb/in <sup>3</sup>	ASTM-D792
Melt Flow	20 g/10 min @Load 10.0 kg, Temperature 230 °C	20 g/10 min @Load 22.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	32.0 MPa	4640 psi	ISO 527
Tensile Modulus	1.40 GPa	203 ksi	ISO 527
Flexural Strength	45.0 MPa	6530 psi	ISO 178
Flexural Modulus	1.15 GPa	167 ksi	ISO 178
Izod Impact, Notched (ISO)	28.0 kJ/m <sup>2</sup> @Temperature -40.0 °C	13.3 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ISO 180
	57.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	27.1 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180
	81.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	38.5 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180
Impact Test	20.0 J @Temperature 23.0 °C	14.8 ft-lb @Temperature 73.4 °F	Multiaxial Impact; E-max; 0.100 in. thickness, 1.57 in. ring, 0.5 in. dart, 3.46 m/s velocity

Mechanical Properties	Metric	English	Comments
	24.0 J @Temperature -30.0 Â°C	17.7 ft-lb @Temperature -22.0 Â°F	Multiaxial Impact; E-max; 0.100 in. thickness, 1.57 in. ring, 0.5 in. dart, 3.46 m/s velocity
	40.0 J @Temperature 23.0 Â°C	29.5 ft-lb @Temperature 73.4 Â°F	Multiaxial Impact; E-fail; 0.100 in. thickness, 1.57 in. ring, 0.5 in. dart, 3.46 m/s velocity
	44.0 J @Temperature -30.0 Â°C	32.5 ft-lb @Temperature -22.0 Â°F	Multiaxial Impact; E-fail; 0.100 in. thickness, 1.57 in. ring, 0.5 in. dart, 3.46 m/s velocity

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	80.0 Â°C	176 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	52.0 Â°C	126 Â°F	ISO 75
Vicat Softening Point	190 Â°C	374 Â°F	A/120; ISO 306

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	232 - 266 Â°C	450 - 511 Â°F	Injection Molding
Middle Barrel Temperature	232 - 266 Â°C	450 - 511 Â°F	Injection Molding
Front Barrel Temperature	232 - 266 Â°C	450 - 511 Â°F	Injection Molding
Nozzle Temperature	249 - 260 Â°C	480 - 500 Â°F	Injection Molding
Melt Temperature	238 - 271 Â°C	460 - 520 Â°F	Injection Molding
Mold Temperature	38.0 - 93.0 Â°C	100 - 199 Â°F	Injection Molding
Drying Temperature	88.0 Â°C @Time 7200 - 14400 sec	190 Â°F @Time 2.00 - 4.00 hour	
Moisture Content	0.15 - 0.35 %	0.15 - 0.35 %	
Dew Point	<= -29.0 Â°C	<= -20.2 Â°F	inlet air
Injection Pressure	41.4 - 82.7 MPa	6000 - 12000 psi	Injection Molding
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	Injection Molding
Clamp Pressure	46.2 - 77.0 MPa	6700 - 11200 psi	Injection Molding
Cushion	<= 0.317 cm	<= 0.125 in	Injection Molding

Descriptive Properties	Value	Comments
Hold Pressure	30-50% of Injection Pressure, Injection Molding	
Injection Speed	Fast	Injection Molding
Screw Compression Ratio	2.5:1	Injection Molding
Screw Length-to-Diameter Ratio	>= 20:1	Injection Molding
Screw Speed	Moderate, Injection Molding	
Shot Weight-to-Machine Capacity Ratio	0.5-0.7	Injection Molding

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