

Triax® 1315

Acrylonitrile Butadiene Styrene + Nylon
INEOS ABS (USA)

Message:

Triax 1315 resin is a 15% glass-reinforced ABS (Acrylonitrile Butadiene Styrene)/Nylon alloy for injection molding. It is a semicrystalline thermoplastic with excellent processibility, good chemical resistance, good fatigue performance, and excellent abrasion characteristics. Triax 1315 resin offers added strength, rigidity, and heat resistance.

Triax 1315 resin is used for parts requiring good rigidity and warpage control. Typical applications include housings, shrouds handles for components of lawn and garden equipment, power tools, appliances, and sporting goods. Automotive applications include fasteners and interior functional components, housings, and shrouds. As with any product, use of Triax 1315 resin in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 15% filler by weight		
Features		Semicrystallization		
		Low warpage		
		Rigidity, high		
		High strength		
		Workability, good		
		Good wear resistance		
		Fatigue resistance		
		Heat resistance, high		
Uses		Handle		
		Lawn and Garden Equipment		
		Electrical appliances		
		Power/other tools		
		Fasteners		
		Application in Automobile Field		
		Car interior parts		
		Sporting goods		
		Shell		
Agency Ratings		EC 1907/2006 (REACH)		
Forms		Particle		
Processing Method		Injection molding		
Multi-Point Data		Isochronous Stress vs. Strain (ISO 11403-1)		
		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.17	1.17	g/cm ³	ASTM D792

Specific Volume	0.850	0.850	cm ³ /g	ASTM D792
Molding Shrinkage - Flow	0.45	0.45	%	ASTM D955
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	107	101		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5170	4620	MPa	ASTM D638
Tensile Strength (Yield)	82.7	75.2	MPa	ASTM D638
Tensile Elongation (Break)	3.5	4.1	%	ASTM D638
Flexural Modulus	4340	3760	MPa	ASTM D790
Flexural Strength (Yield)	130	112	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C, 3.18 mm	69	69	J/m	ASTM D256
-40°C, 6.35 mm	59	64	J/m	ASTM D256
23°C, 3.18 mm	110	110	J/m	ASTM D256
23°C, 6.35 mm	140	140	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, unannealed, 3.18mm	169	168	°C	ASTM D648
0.45 MPa, unannealed, 6.35mm	190	180	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	98.9	97.2	°C	ASTM D648
1.8 MPa, unannealed, 6.35mm	102	100	°C	ASTM D648
Vicat Softening Temperature	201	199	°C	ASTM D1525 ¹
CLTE - Flow				ASTM D696
-40 to 22°C	4.7E-5	4.5E-5	cm/cm/°C	ASTM D696
22 to 83°C	4.1E-5	4.0E-5	cm/cm/°C	ASTM D696
RTI Elec (1.50 mm)	60.0	60.0	°C	UL 746
RTI Imp (1.50 mm)	60.0	60.0	°C	UL 746
RTI (1.50 mm)	60.0	60.0	°C	UL 746
Flammability	Dry	Conditioned		Test Method
Flame Rating				UL 94
1.50 mm, Natural & Black	HB	HB		UL 94
3.00 mm, Gray	HB	HB		UL 94
Optical	Dry	Conditioned		Test Method
Gardner Gloss				ASTM D523
20°	7	7		ASTM D523
60°	26	26		ASTM D523

Injection	Dry	Unit
Drying Temperature	87.8	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.15 - 0.35	%
Suggested Shot Size	50 - 70	%
Suggested Max Regrind	20	%
Rear Temperature	232 - 266	°C
Middle Temperature	232 - 266	°C
Front Temperature	232 - 266	°C
Nozzle Temperature	249 - 260	°C
Processing (Melt) Temp	238 - 271	°C
Mold Temperature	37.8 - 65.6	°C
Injection Pressure	41.4 - 82.7	MPa
Injection Rate	Fast	
Back Pressure	0.345 - 0.689	MPa
Clamp Tonnage	4.1 - 6.9	kN/cm ²
Cushion	< 3.18	mm
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.5:1.0	

Injection instructions

Hold Pressure: 30 to 50% of Injection PressureScrew Speed: Moderate

NOTE

1. 标准 B (120°C/h), 压力1 (10N)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT