Triax® 1185

Acrylonitrile Butadiene Styrene + Nylon

INEOS Styrolution Group GmbH

Message:

Triax 1185 resin is an ABS (Acrylonitrile Butadiene Styrene)/Nylon 6 alloy for injection molding. It is a semicrystalline thermoplastic with excellent processibility, good chemical resistance, good fatigue performance, and excellent abrasion characteristics. Triax 1185 resin has excellent impact resistance across a broad temperature range and excellent surface appearance.
Triax 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. As with any product, use of Triax 1185 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			
UL YellowCard	E44741-598575		
Features	Semicrystallization Impact resistance, good Workability, good Good wear resistance Good chemical resistance Fatigue resistance Excellent appearance		
Uses	Industrial application Sporting goods Consumer goods application field		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.07	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	20	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1400	MPa	ISO 527-2/1
Tensile Stress (Yield)	32.0	MPa	ISO 527-2/50
Flexural Modulus [1]	1150	MPa	ISO 178
Flexural Stress [2]	45.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ISO 180
-40°C	28	kJ/m²	ISO 180
-30°C	57	kJ/m²	ISO 180
23°C	81	kJ/m²	ISO 180

Multi-Axial Instrumented Impact Energy			ISO 6603-2
-30°C, 2.54mm, energy to peak strength	24.0	J	ISO 6603-2
-30°C, 2.54mm, total impact penetration energy	44.0	J	ISO 6603-2
23°C, 2.54mm, energy to peak strength	20.0	J	ISO 6603-2
23°C, 2.54mm, total impact penetration energy	40.0	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	80.0	°C	ISO 75-2/B
1.8 MPa, not annealed	52.0	°C	ISO 75-2/A
Vicat Softening Temperature	190	°C	ISO 306/A120
Injection	**Nominal Value**	**Unit**	
Drying Temperature	87.8	°C	
Drying Time	2.0 - 4.0	hr	
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 - 93.3	°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.	2.0 mm/min		
2.	2.0 mm/min		

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