

ALLEN® T3050LG

High Impact TPO, Low Gloss Sheet

INTRODUCTION

ALLEN® T3050LG is a general purpose TPO that has high impact properties and a good cost to performance ratio to other materials like steel, FRP, aluminum, and other thermoplastics.

GENERAL INFORMATION

ALLEN® T3050LG has been tested under laboratory conditions and has achieved a UL94 HB rating at 0.060 in (1.52mm) and above and meets the requirements of Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302).

SUGGESTED APPLICATIONS

- Vehicle Interiors
- Industrial Housings
- Heavy Equipment parts
- Agriculture Equipment parts
- Antenna covers
- Exterior RV components

FEATURES

- UV and non UV resistant products available
- Excellent low temperature impact strength
- Edge trim easily used into future orders
- Excellent chemical resistance
- High heat resistance
- Low gloss finish only

ENVIRONMENTAL & SAFETY CONSIDERATIONS

SEKISUI KYDEX, LLC is committed to ensuring that its products can be manufactured, transported, stored, used, disposed and recycled with an appropriate regard for safety, health, and environmental protection. We support the safe handling of our products.

Please contact our appLab™ department at 800.682.8758 for resources and Safety Data Sheets or visit our website: www.kydex.com.



Customer Collaboration

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PROPERTY	TEST METHOD	TYPICAL VALUE ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.13 g/cc	
Water Absorption, 24hr	ASTM D570	0.01%	
Rockwell Hardness, R-Scale	ASTM D785	51	
MECHANICAL			
Tensile Strength	ASTM D638	19.8 MPa	2,870 psi
Tensile Modulus	ASTM D638	2,709.6 MPa	393,000 psi
Flexural Stress at 5% Strain	ASTM D790	29.2 MPa	4,230 psi
Flexural Modulus	ASTM D790	2,282.2 MPa	331,000 psi
Compressive Strength, yield	ASTM D695	23.1 MPa	3,350 psi
Shear Strength	ASTM D732	20.1 MPa	2,910 psi
Bearing Strength, 4% deflection	ASTM D953	18.1 MPa	2,630 psi
Bearing Strength, max.	ASTM D953	96.5 MPa	14,000 psi
Notched Izod Impact Resistance	ASTM D256	683.5 J/m	12.8 ft-lbs/in
Gardner Drop Dart Impact, GE	ASTM D5420	34.1 J	302 in-lb
THERMAL			
Heat Deflection Temperature (HDT) 264 psi (1.8 MPa), Unannealed	ASTM D648	59.9°C	139.7°F
Heat Deflection Temperature (HDT) 66 psi (0.45 MPa), Unannealed	ASTM D648	116°C	240.6°F
Coefficient of Thermal Expansion (MD)	ASTM E831	39.5 µm/m/°C	22 µin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	22.9 kV/mm	580 V/mil
FLAMMABILITY			
Underwriters Laboratories, Inc.® Component Recognition	UL Standard 94 ²	HB @ 0.060 in (1.52mm)	
Motor Vehicle Safety Standard	FMVSS 302	Pass	
¹ Values based upon 0.125" (3.17mm) sheet unless otherwise specified. ² ALLEN® T3050LG has been tested under laboratory conditions and has passed UL 94HB criteria. SEKISUI KYDEX, LLC makes no warranty or guarantee that these products will meet UL 94HB in the part's final, finished configuration. Not intended for specification purposes.			



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