## **HellermannTyton**

TYPICAL MATERIAL PROPERTIES

### POLYPROPYLENE General Purpose

SPECIFICATION NUMBER				
MTS1101CSU				

| REVISION | Level:...02 | Date:..02/18/14 | By:..LG | CO2/18/14 |

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Recycling

Symbol:

>PP<

#### **DESCRIPTION**

This material is a general-purpose polypropylene copolymer. It is impact modified. It is also blush (stress whitening) resistant.

Commercial Name: ...... Polypropylene

Catalog Code:.....PP

Chemical Name: ..... Polypropylene copolymer

Used On:...... Cable ties, snapper clamps, TAD, and EL-TY spacer.

#### **GENERAL PERFORMANCE CHARACTERISTICS**

Heat Stabilized Low

High Impact Moderate to high

Moisture Sensitivity Low

UV Resistance High, with carbon black colorant added, unspecified in natural form

#### **PERFROMANCE ADDITIVES**

Glass None Mineral None

Carbon Only with black colorant added

Halogens None

#### **PROCESS ADDITIVES**

Fillers None
Lubricants None
Shrink Additives None

#### **CONDITIONING**

None needed. Material is not affected by moisture.

#### **CHEMICAL RESISTANCE**

Resistant to most organic solvents, with the exception on very strong oxidizing agents such as fuming nitric acid or sulfuric acid.

Gasoline Good Oil Good

#### **MAJOR TOXIC ELEMENTS**

No significant hazard associated with this material.

**APPROVALS** (check with factory for specific grade or level)

UL, ASTM, FDA, GM, CHRYSLER

Form # F-PE-4.9-3

Rev: H / Rev Date: 1/10/2014 Coordinator: KEN CHRISTIAN Uncontrolled VIEW Page1 of 2

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## POLYPROPYLENE General Purpose

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MTS1101CSU

MEF 11/12/03 Checked By: KAC 02/18/14

Level:...02 Date:..02/18/14 By:..LG ECN#:..012586

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#### **PROPERTIES CHART**

THE EXTLES OF THE	Dry	<u>Units</u>	Test Method
FLAMMABILITY			
UL Flammability	НВ	-	UL 94
PHYSICAL			
Density	0.9 (0.033)	g/cm <sup>3</sup> (lb/in <sup>3</sup> )	ASTM D792B
Melt flow rate	22	g/10 min	ASTM D1238
<u>MECHANICAL</u>			
Tensile Strength @ Yield	24 (3480)	MPa (psi)	ASTM D638
Elongation @ Yield	7	%	ASTM D638
Flexural Modulus	1000 (145000)	MPa (psi)	ASTM D790A
Izod Impact Notched	1 (1.87)	J/cm (ft-lb/in)	ASTM D256A
Impact Test	27 (19.9)	J (ft-lb/in)	Montell drop weight
			impact strength @-29°C
THERMAL			
Continuous Operating Temp	-40 to 115 (-40 to 239)	°C (°F)	UL 746B
RTI Strength @ 0.94, 1.5 & 3.0 mm			
Heat Deflection Temp @ 1.8 MPa (264 psi)	247 (475)	°C (°F)	ASTM D648
0.45 MPa (66 psi)			

This document is intended as a general guide, in the material selection for a product, but does not guarantee satisfactory performance. All materials selected must be thoroughly tested in its intended application to determine its suitability. Consult a HellermannTyton Representative for assistance in the final material selection.

The information contained herein is believed to be accurate at the time of printing. However, this information has been obtained from a variety of sources and has not been independently verified by HellermannTyton Corporation; therefore, we cannot warrant fitness for a particular application. Furthermore, HellermannTyton Corporation reserves the right to make changes to this document, at any time, without notice to our customers.