

Product Data Sheet

Grade GPA300

7/24/2003

Super-tough ABS with our highest impact strength, injection molding

Properties

PHYSICAL	Test Method	Typical Values, Units
Specific Gravity	ASTM D792	1.04 g/cm ³
Melt Flow Rate (230 C/3800g)	ASTM D1238	5 g/10 min
Mold Shrinkage Linear Flow (0.125)	ASTM D955	.005 to .008 in/in
Water Absorption @ 24 hrs	N/A	N/R %

IMPACT	Test Method	Typical Values, Units
Izod Impact Strength Notched (73 F)	ASTM D256	7 ft-lb/in

MECHANICAL	Test Method	Typical Values, Units
Tensile Strength @ Yield**	ASTM D638	5800 psi
Tensile Strength @ Break**	ASTM D638	4200 psi
Elongation @ Yield*	ASTM D638	3 %
Elongation @ Break*	ASTM D638	50 %
Flexural Strength***	ASTM D790	8500 psi
Flexural Modulus***	ASTM D790	275000 psi

HARDNESS	Test Method	Typical Values, Units
Hardness (R-scale)	ASTM D785	107

THERMAL	Test Method	Typical Values, Units
DTUL @ 264 psi Unannealed (.250)	ASTM D648	181 °F

IGNITION CHARACTERISTICS	Test Method	Typical Values, Units
UL File Number Flame Rating - UL		

* % elongation values are calculated from the elongation of the entire bar at 2.0 in/min
 ** Tensile strength values are calculated at 2.0 in/min
 *** Flexural data is calculated at 2.0 in/min

The values shown are typical values that have been obtained using test bars molded from laboratory samples and are not intended for specification purposes. These values are for natural colors only. Addition of pigments may alter some values. Inasmuch as LTL Color Compounders has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own test to determine the material's suitability for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any LTL Color Compounders patent covering such use or as recommendations for use of such materials in the infringement of any patent. These are developmental products with estimated physical property profiles. Actual values will need to be determined upon production of material.

Product Data Sheet

Grade GPA300X

7/24/2003

Extrusion grade, high impact, high gloss ABS

Properties

PHYSICAL	Test Method	Typical Values, Units
Specific Gravity	ASTM D792	1.03 g/cm ³
Melt Flow Rate (230 C/3800g)	ASTM D1238	7 g/10 min
Mold Shrinkage Linear Flow (0.125)	ASTM D955	.005 to .008 in/in
Water Absorption @ 24 hrs	N/A	N/R %
IMPACT	Test Method	Typical Values, Units
Izod Impact Strength Notched (73 F)	ASTM D256	8 ft-lb/in
MECHANICAL	Test Method	Typical Values, Units
Tensile Strength @ Yield**	ASTM D638	5200 psi
Tensile Strength @ Break**	ASTM D638	4000 psi
Elongation @ Yield*	ASTM D638	3 %
Elongation @ Break*	ASTM D638	110 %
Flexural Strength***	ASTM D790	7500 psi
Flexural Modulus***	ASTM D790	250000 psi
HARDNESS	Test Method	Typical Values, Units
Hardness (R-scale)	ASTM D785	105
THERMAL	Test Method	Typical Values, Units
DTUL @ 264 psi Unannealed (.250)	ASTM D648	181 °F
IGNITION CHARACTERISTICS	Test Method	Typical Values, Units
UL File Number Flame Rating - UL		

* % elongation values are calculated from the elongation of the entire bar at 2.0 in/min

** Tensile strength values are calculated at 2.0 in/min

*** Flexural data is calculated at 2.0 in/min

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