BASF Luran S®778T ASA

Automotive Approvals

Toyota - Application Specific
Ford - WSBM4D833A
General Motors - GMP.ASA.002
Chrylser - Various

PROPERTY	METHOD	UNIT	VALUES
PHYSICAL			
Density	ASTM D1505	g/cm3	1.07
MECHANICAL			
Tensile Modulus	ASTM D638	psi	342000
Tensile Strength @ Yield	ASTM D638	psi	7100
Tensile Elongation @ Brk	ASTM D638	psi	360,000
IMPACT			
Notched Izod Impact (73°F, 0.125 in	ASTM D256	Ft-lb/in	4.70
THERMAL			
DTUL @264psi - Unannealed	ASTM D648	°F	217
DTUL @66psi - Unannealed	ASTM D648	°F	223
Vicat Softening Point	ASTM D1525	°F	219
IGNITION CHARACTERISTICS			
Flame Rating - UL	UL 94		
(0.0295 in, ALL)			HB
(0.0591 in, ALL)			HB
(0.118 in, ALL)			HB

†The data listed here fall within the normal range of product properties, but they should not be used to establish specification limits or used alone as a basis for design. This information is not intended as a warranty of any kind. Buyers must make their own representative test and assume all risks of use, whether used alone or in combination with other products. Entec Polymers, LLC assumes no obligation or liability of any advice furnished by it or results obtained with respect to these products. All warranties expressed or implied including warranties of merchantability for a particular purpose or use are excluded and disclaimed. Entec Polymers, LLC assumes no liability for use of products in infringement of any patent. The foregoing limitation of remedy and exclusion of liability is reflected in and is part of the consideration for the price at which the products are sold by Entec Polymers, LLC. All data displayed herein has been obtained via testing of injection-molded specimens of natural color. Pigmentation may affect certain properties to various degrees.

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During the design and resin selection phase for the 2003 Toyota Avalon, Toyota engineers were in search of a material to be used in the tail lamp assembly housing that would give them the necessary balance of cosmetic appearance, impact strength, and of crucial importance, weather ability. In addition, the selected resin would have to possess the characteristics that would allow it to be hot plate welded to acrylic and be capable of being vacuum metalized.

Because of the importance and unique combination of the requirements, ASA, and more specifically Luran® S 778T, demonstrated itself as a material with the performance capabilities necessary to continue to attract attention and gain approvals in the critical world of automotive production.