



Polylac[®] PA-727 ABS Resin



Product Attributes

- Plateable ABS

Material Approvals
 General Motors-GMP.ABS.007
 Chrysler-MSDB197 CPN 2220
 Ford – ESB – M4D241-B
 Delphi – DX300010

Buick Park Avenue Grill

PROPERTY	METHOD	UNIT	VALUES
PHYSICAL			
Melt Flow Index 200°C x 5kg (Cond. G)	ASTM D1238	g/10min	1.7
230°C x 3.8kg (Cond. I)	ASTM D1238	g/10min	7.0
220°C x 10kg	ISO 1133	g/10min	18
Specific Gravity	ASTM D792	-	1.04
Mold Shrinkage (Flow, 1/8 in.)	ASTM D955	In/in X 10 ⁻³	3-7
MECHANICAL @ 73°F			
Izod Impact Strength (Notched) 1/8"	ASTM D256	ft lb/in (J/m)	4.8 (256)
Izod Impact Strength (Notched) ¼"	ASTM D256	ft lb/in (J/m)	4.2 (224)
Tensile Strength at Yield	ASTM D638	psi MPa	6,900 47
Tensile Modulus	ASTM D638	psi MPa	410,000 2,827
Elongation at Break	ASTM D638	%	20
Flexural Modulus	ASTM D790	psi MPa	380,000 2,620
Flexural Strength at Yield	ASTM D790	psi MPa	11,000 76
Hardness (Rockwell, R-Scale)	ASTM D785	-	110
THERMAL			
Heat Deflection Temp. (1/4" Specimens)	ASTM D648	°F (°C)	190 (88)
264 psi (1.82 MPa) Unannealed		°F (°C)	210 (99)
264 psi (1.82 MPa) Annealed		°F (°C)	208 (98)
66 psi (0.46 Mpa) Unannealed			
Vicat Softening Temp. (1 kg, 50°C/hr)	ASTM D1525	°F (°C)	221 (105)
Coefficient of Thermal Expansion	ASTM D696	In/in °F x 10 ⁻⁵ m/mm °C x 10 ⁻⁵	5.6 10.1
ELECTRICAL @ 73°F			
Volume Resistivity	ASTM D257	Ohm-cm	>10 ¹⁵
FLAME CLASS RATING *			
UL94 HB (Min. Tested Thickness)	UL 94	In (mm)	0.062 (1.57)
UL 94 V-O (Min. Tested Thickness)	UL 94	In (mm)	-

†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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