

General Purpose ABS, POLYLAC[®] Characteristics

April 26, 2012

Properties	Test Method	Test Condition	Unit	PA-707	PA-757	PA-717C	PA-727	PA-747	PA-709
Tensile Strength	ASTM D638	3mm, 6mm/min	Kg/cm ²	490	460	430	485	385	400
Tensile Elongation	ASTM D638	3mm, 6mm/min	%	20	25	30	20	30	40
Flexural Strength	ASTM D790	6mm, 2.8 mm/min	Kg/cm ²	860	790	720	780	620	640
Flexural Modulus	ASTM D790	6mm, 2.8 mm/min	Kg/cm ²	29000	27000	25000	27000	22000	23000
Izod Impact Strength	ASTM D256 (Notched)	6mm, 23°C	Kg-cm/cm	14	18	25	23	32	37
		3mm, 23°C		16	21	29	26	41	45
Melt Flow Index	ASTM D1238	200°C, 5Kg	g/10min	1.7	1.6	1.3	1.6	1.1	0.5
		220°C, 10Kg		23	22	14	19	13	15
Hardness	ASTM D785	-	R Scale	116	116	115	110	108	102
Specific Gravity	ASTM D792	23°C	-	1.06	1.05	1.04	1.04	1.03	1.03
Vicat Softening Temp.	ASTM D1525	3mm, 50°C/hr	°C	105	105	104	105	103	105
Heat Distortion Temp.	ASTM D648	Annealed	°C	95	95	95	95	95	95
		Unannealed		85	85	85	85	85	85
Flammability	UL 94	-	-	1.6mm,HB	1.6mm,HB	1.6mm,HB	1.6mm,HB	1.6mm,HB	1.6mm,HB

Notes : These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests

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