

Extrusion ABS, POLYLAC[®] Characteristics

April 26, 2012

Properties	Test Method	Test Condition	Unit	PA-747R	PA-747F	PA-747H	PA-747S	PA-709S
Tensile Strength	ASTM D638	3mm, 6mm/min	Kg/cm ²	430	485	480	390	370
Tensile Elongation	ASTM D638	3mm, 6mm/min	%	40	35	50	40	40
Flexural Strength	ASTM D790	6mm, 2.8 mm/min	Kg/cm ²	690	730	700	620	560
Flexural Modulus	ASTM D790	6mm, 2.8 mm/min	Kg/cm ²	23000	26000	24000	21000	20000
Izod Impact Strength	ASTM D256 (Notched)	6mm, 23℃	Kg-cm/cm	35	25	32	35	37
		3mm, 23℃		45	32	45	40	44
Melt Flow Index	ASTM D1238	200℃, 5Kg	g/10min	0.25	0.3	0.23	0.5	0.4
		220℃, 10Kg		2.5	3	2.8	7.5	4.5
Hardness	ASTM D785	-	R Scale	110	115	112	102	100
Specific Gravity	ASTM D792	23℃	-	1.04	1.05	1.05	1.03	1.03
Vicat Softening Temp.	ASTM D1525	3mm, 50℃/hr	℃	105	106	106	103	106
Heat Distortion Temp.	ASTM D648	Annealed	℃	95	95	95	95	95
		Unannealed		85	85	85	85	85
Flammability	UL 94	-	-	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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