

Flame Retardant ABS, POLYLAC[®] Characteristics

May 7, 2012

Properties	Test Method	Test Condition	Unit	PA-763	PA-763A	PA-765	PA-765A	PA-765B	PA-764	PA-764B
Tensile Strength	ASTM D638	3mm, 6mm/min	Kg/cm ²	395	405	390	400	400	370	400
Tensile Elongation	ASTM D638	3mm, 6mm/min	%	30	40	15	20	25	15	20
Flexural Strength	ASTM D790	6mm, 2.8 mm/min	Kg/cm ²	620	630	620	640	650	590	660
Flexural Modulus	ASTM D790	6mm, 2.8 mm/min	Kg/cm ²	25000	26000	21000	23000	2000	20000	23000
Izod Impact Strength	ASTM D256 (Notched)	6mm, 23°C	Kg-cm/cm	20	22	18	20	22	12	12
		3mm, 23°C		24	25	22	24	25	14	16
Melt Flow Index	ASTM D1238	200°C, 5Kg	g/10min	2.8	2.6	5	4.6	4.2	3.2	2.8
		220°C, 10Kg		30	28	56	46	42	32	28
Hardness	ASTM D785	-	R Scale	98	98	100	101	102	98	102
Specific Gravity	ASTM D792	23°C	-	1.19	1.17	1.19	1.17	1.16	1.19	1.16
Vicat Softening Temp.	ASTM D1525	3mm, 50°C/hr	°C	104	105	90	92	92	97	101
Heat Distortion Temp.	ASTM D648	Annealed	°C	96	97	83	85	85	92	93
		Unannealed		85	86	73	76	76	78	80
Flammability	UL 94	-	-	1.5mm, V-0 2.5mm, 5VA	1.5mm, V-1 2.0mm, V-0 3.0mm, 5VA	1.0mm,V-1 1.5mm, V-0 2.5mm, 5VA	1.5mm, V-1 2.0mm, V-0 2.5mm, 5VA	1.5mm, V-2 2.5mm, V-0	1.5mm, V-0 2.5mm, 5VA	2.5mm, V-0 3.0mm, 5VA

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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