

### Flame Retardant ABS POLYLAC® PA-765A

Product Description: F.R. High flow

Properties	ISO Test Method	Test Condition	Unit	PA-765A
Melt Flow Index	1133	220°C×10KG	ml/10 min	46
Mass Density	1183	23 °C	g/cm <sup>3</sup>	1.17
Tensile Strength	527	50 mm/min, yield	MPa	38
		50 mm/min, break	MPa	29
Tensile Elongation	527	50 mm/min	%	10
Flexural Strength	178	2 mm/min	MPa	56
Flexural Modulus		2 mm/min	GPa	1.8
Izod Impact Strength	180/1A	23 °C Notched	KJ/m <sup>2</sup>	23
		-30 °C Notched	KJ/m <sup>2</sup>	10
Charpy Impact Strength	179	23 °C Notched	KJ/m <sup>2</sup>	24
		-30 °C Notched	KJ/m <sup>2</sup>	10
Vicat Softening Temp.	306	1 Kg,50 °C/hr	°C	93
		5 Kg,50 °C/hr	°C	79
Heat Distortion Temp.	75/A	1.8 MPa Unannealed	°C	76
		1.8 MPa Annealed	°C	84
Coefficient of Linear Thermal Expansion	11359	-	-	8.48 x 10 <sup>-5</sup>
Flammability	-	UL-94	-	1.5mm V-1 2.1mm V-0 2.1mm 5VB 2.5mm 5VA
Mold Shrinkage	294-4	-	%	0.3~0.6
Symbol	1043	-	-	>ABS-FR(17)<

January 16, 2017

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

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## Flame Retardant ABS POLYLAC<sup>®</sup> Characteristics PA-765A

特性 PROPERTIES	測試方法 ASTM TEST METHOD	測試條件 TEST CONDITION	單位 UNIT	防火級 FLAME RETARDANT
				PA-765A
熔融指數 Melt Flow Index	D1238	200 °C, 5 Kg	g/10 min	4.6
		220 °C, 10 Kg		-
比重 Mass Density	D792	23 °C	-	1.17
硬度 Hardness	D785	-	R Scale	101
拉伸強度 (屈服) Tensile Strength (Yield)	D638	6 mm/min	Kg/cm <sup>2</sup>	400
			lb/in <sup>2</sup>	5670
延伸率 Tensile Elongation	D638	6 mm/min	%	20
彎曲強度 Flexural Strength	D790	2.8 mm/min	Kg/cm <sup>2</sup>	640
			lb/in <sup>2</sup>	9070
彎曲彈性模數 Flexural Modulus	D790	2.8 mm/min	10 <sup>4</sup> Kg/cm <sup>2</sup>	2.3
			10 <sup>5</sup> lb/in <sup>2</sup>	3.2
IZOD 衝擊強度 Izod Impact Strength	D256 (Notched)	6.4 mm, 23°C	Kg-cm/cm	20
			ft-lb/in	3.7
		3.2 mm, 23°C	Kg-cm/cm	24
			ft-lb/in	4.4
維氏軟化溫度 Vicat Softening Temp.	D1525	1 Kg, 50 °C/hr	°C	92
			°F	198
熱變形溫度 Heat Distortion Temp.	D648	1.8 MPa Annealed	°C	85
			°F	185
		1.8 MPa Unannealed	°C	76
			°F	169
UL 燃燒等級 UL Flammability	UL 94	-	-	1.5 mm V-1 2.5 mm V-0 2.5 mm 5VB 3.0 mm 5VA

May 16, 2013

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