

Extrusion ABS, POLYLAC[®] Characteristics

September 21, 2012

Properties	ISO	Test Condition	Unit	PA-747R	PA-747F	PA-747S	PA-709S
MVI	1133	220°C×10kg	ml/10min	2.5	3.3	7	4
Mass Density	1183	23°C	g/cm ³	1.04	1.05	1.03	1.03
Tensile Strength	527	50mm/min, yield	MPa	44	46	40	36
		50mm/min, break	MPa	33	35	30	28
Tensile Elongation	527	50 mm/min	%	20	20	40	30
Flexural Strength	178	2 mm/min	MPa	61	66	57	51
Flexural Modulus	178	2 mm/min	GPa	1.7	1.9	1.7	1.5
Izod Impact Strength	180/1A	Notched	KJ/m ²	29	25	29	31
		Unnotched	KJ/m ²	-	-	-	-
Charpy Impact	179	Notched	KJ/m ²	32	27	31	33
		Unnotched	KJ/m ²	-	-	-	-
Vicat Softening Temp.	306	50°C/hr;1kg	°C	106	106	103	104
		50°C/hr;5kg	°C	101	101	98	98
H.D.T / A	75	1.8 MPa,unanneal	°C	88	89	87	86
		1.8 MPa,anneal	°C	99	100	96	96
Ball Indentation Hardness	2039-1	H358/30	-	90	99	89	75
Flammability	-	UL-94	-	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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