

## General Purpose ABS, POLYLAC<sup>®</sup> Characteristics

September 11, 2012

Properties	ISO	Test Condition	Unit	PA-707	PA-757	PA-717C	PA-727	PA-726	PA-747	PA-709	PA-709P
MVI	1133	220°C×10kg	ml/10min	23	22	14	19	21	13	5	8.5
Mass Density	1183	23°C	g/cm <sup>3</sup>	1.06	1.05	1.04	1.04	1.04	1.03	1.03	1.03
Tensile Strength	527	50mm/min, yield	MPa	56	54	49	52	44	39	40	45
		50mm/min, break	MPa	38	37	35	37	35	31	32	36
Tensile Elongation	527	50 mm/min	%	20	20	20	15	40	45	55	60
Flexural Strength	178	2 mm/min	MPa	79	76	69	73	64	58	58	58
Flexural Modulus	178	2 mm/min	GPa	2.3	2.2	1.9	2.1	2.1	1.8	1.8	1.9
Izod Impact Strength	180/1A	Notched	KJ/m <sup>2</sup>	13	18	24	21	24	34	37	27
		Unnotched	KJ/m <sup>2</sup>	50	60	NB	NB	NB	NB	NB	NB
Charpy Impact	179	Notched	KJ/m <sup>2</sup>	15	20	27	23	26	37	41	27
		Unnotched	KJ/m <sup>2</sup>	NB	NB	NB	NB	NB	NB	NB	NB
Vicat Softening Temp.	306	50°C/hr;1kg	°C	104	104	103	102	103	101	103	103
		50°C/hr;5kg	°C	100	100	98	96	94	92	94	95
H.D.T / A	75	1.8 MPa,unanneal	°C	88	88	87	87	87	86	88	80
		1.8 MPa,anneal	°C	98	98	97	98	96	96	98	98
Ball Indentation Hardness	2039-1	H358/30	-	115	110	97	103	99	88	86	86
Flammability	-	UL-94	-	1.6mm	1.6mm	1.6mm	1.6mm	1.6mm	1.6mm	1.6mm	1.6mm
				HB	HB	HB	HB	HB	HB	HB	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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