

M - 002

<b>TECHNICAL DATA SHEET</b>		<b>APPLICATIONS</b>	<b>CHARACTERISTICS</b>	
CTE Material name: LONBEL® ASA ACRYLONITRILE STYRENE ACRYLATE (ASA)		ASA: Outdoor applications, housing	Vacuun formable, high impact strength, UV resistant	
n.t.= Not tested				
<b>GENERAL PROPERTIES</b>		<b>Unit</b>	<b>Test method</b>	<b>Value</b>
				<b>ASA</b>
Density	g/cm <sup>3</sup>	DIN EN ISO 1183-1		1,1
Water absorption	%	DIN EN ISO 62		0,36
Flammability		UL 94		HB
<b>MECHANICAL PROPERTIES</b>				
Yield stress	Mpa	DIN EN ISO 527		27
Elongation at break	%	DIN EN ISO 527		66
Tensile modulus of elasticity	Mpa	DIN EN ISO 527		1800
Notched impact strength	kJ/m <sup>2</sup>	DIN EN ISO 179		30
Shore hardness	scale D	DIN EN ISO 868		70
Rockwell hardness	scale R	DIN EN ISO 2039-2		n.t.
<b>THERMAL PROPERTIES</b>				
Thermal conductivity	W/(m*K)	DIN 52612-1		0,17
Thermal capacity	KJ/(kg*K)	DIN 52612		n.t.
Coefficient of linear thermal expansion	10 <sup>-6</sup> /K	DIN 53752		95
Service temperature long term	°C	Average		74
Service temperature short term max.	°C	Average		90
Vicat softening temperature	°C	DIN EN ISO 306, Vicat B		92
<b>ELECTRICAL PROPERTIES</b>				
Volume resistivity	Ω	DIN EN 61340		>10 <sup>12</sup>
Surface resistivity	Ω	DIN EN 61340		>10 <sup>12</sup>
Volume resistivity	Ω * cm	IEC 60093		n.t.
Surface resistivity	Ω	IEC 60093		n.t.
Dielectric constant		IEC 60250		n.t.
Dielectric dissipation factor (50 Hz)		IEC 60250		n.t.
Comparative tracking index		IEC 60112		n.t.
Dielectric strength	Kv/mm	IEC 60243		n.t.