



**DATA SHEET**

**ABS TARODUR 100**

ABS standard grade for injection moulding, good flow and gloss.

Approved UL94 HB - All color @ 1,5 mm - Approved UL 746B.

Available: all colors, UV-stabilized (L), heat stabilized (H) and antistatic (AS).

	<b>DRYING - conditions</b>	<b>Melt temperature:</b>	210 - 240°C
<b>Pre-heater:</b>	70 - 80°C - 3 h	<b>Mould temperature:</b>	50 - 80°C
<b>Dryer:</b>	70 - 80°C - 1 h	<b>Rate of injection:</b>	HIGH

PROPERTY	METHOD	DIN	ISO	ASTM	unit	VALUE	condition
<b>ELECTRICAL</b>							
Volume Resistivity		5348		D257	Ohm cm	<b>10exp(15)</b>	
<b>PHYSICAL</b>							
Melt Flow Index		5373	R292	D123	g/10'	<b>20</b>	220°C - 10 Kg
Density (23 °C)		5347	R118	D792	Mg/m <sup>3</sup>	<b>1,04</b>	
Water Absorption (24h / 23°C)		5349	R62	D570	%	<b>0,15</b>	
Mould Shrinkage (Parallel)				D955	%	<b>0,6-0,7</b>	
Mould Shrinkage (Normal)				D955	%	<b>0,6-0,7</b>	
<b>MECHANICAL</b>							
IZOD Notched Impact		-	180	D256	J/m	<b>180</b>	+23°C - 3,2 mm
CHARPY Notched Impact		5345	R179	D256	kJ/m <sup>2</sup>	<b>15</b>	+23°C - 6x4x50 mm
Tensile Modulus		5345	R527	D638	N/mm <sup>2</sup>	<b>2500</b>	
Flexural Modulus		5345	R178	D790	N/mm <sup>2</sup>	<b>2400</b>	
Elongation at Break		5345	R527	D638	%	<b>25</b>	
Tensile Yield Strength		5345	R527	D638	N/mm <sup>2</sup>	<b>48</b>	
Flexural Yield Strength		5345	R178	D790	N/mm <sup>2</sup>	<b>66</b>	
ROCKWELL Hardness				D785	scala R	<b>112</b>	
<b>FLAMMABILITY</b>							
Oxygen index				D286	%	<b>&lt;21</b>	
Flame Behaviour (1,5 mm)	UL 94					<b>HB</b>	Yellow card
Glow Wire Test (2 mm)	IEC 695-2-1				°C	<b>550</b>	
<b>THERMAL</b>							
VICAT Temperature (1 kg)		5346	R306	D152	°C	<b>105</b>	50°C / h
VICAT Temperature (5 kg)		5346	R306	D152	°C	<b>95</b>	50°C / h
Heat Deflection Temperature (1,82 N/mm <sup>2</sup> )		5346	R75	D648	°C	<b>85</b>	120°C / h
Ball Pressure Test	VDE 0470				°C	<b>75</b>	
Continuous service temperature	UL 94 746B				°C	<b>60</b>	UL 746B
Coefficient of linear thermal expansion		5375		D696	K <sup>-1</sup>	<b>9x10exp(-5)</b>	-30°C / +30°C

These value are for natural color only. Colorant or other additives may alter some or all of these property. The data listed here fall within the normal range of product properties, but they should not be used to establish specification limits nor used alone as the basis of design.