

# INEOS ABS

## Lustran Ultra 4115

Very high heat grade with high impact resistance, PC-modified

ISO Shortname: ISO 2580-1 -ABS 2-X, MG, 115-04-35-20

Property	Test Condition	Unit	Standard	Value
<b>Rheological properties</b>				
C Melt volume-flow rate	260 °C; 5 kg	cm <sup>3</sup> /(10 min)	ISO 1133	12
Molding shrinkage, parallel	150x105x3	%	acc. ISO 2577	0.6-0.8
Molding shrinkage, normal	150x105x3	%	acc. ISO 2577	0.6-0.8
<b>Mechanical properties (23 °C/50 % r. h.)</b>				
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	47
Tensile Stress at break	50 mm/min	MPa	ISO 527-1,-2	40
Tensile Strain at break	50 mm/min	%	acc. ISO 527-1,-2	35
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2250
Flexural strength	2 mm/min	MPa	ISO 178	70
Flexural modulus	2 mm/min	MPa	ISO 178	2200
Izod notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 180-1A	40
Izod notched impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 180-1A	12
C Yield strain	50 mm/min	%	ISO 527-1,-2	3,8
C Nominal strain at break	50 mm/min	%	ISO 527-1,-2	20
C Charpy notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eA	42
C Charpy notched impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 179-1eA	13
Ball indentation hardness		N/mm <sup>2</sup>	ISO 2039-1	100
<b>Thermal properties</b>				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	108
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	114
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	116
C Burning behavior UL 94 (1.6 mm)	1.6 mm	Class	UL 94	HB
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.8
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.9
Burning rate (US-FMVSS)	2.0 mm	mm/min	ISO 3795	32
Glow wire test (GWFI)	2.0 mm	°C	IEC 60695-2-12	700
<b>Electrical properties (23 °C/50 % r. h.)</b>				
C Relative permittivity	100 Hz	-	IEC 60250	3
C Relative permittivity	1 MHz	-	IEC 60250	3
C Dissipation factor	100 Hz	10 <sup>-4</sup>	IEC 60250	44
C Dissipation factor	1 MHz	10 <sup>-4</sup>	IEC 60250	84
C Volume resistivity		Ohm-m	IEC 60093	3E+14
C Surface resistivity		Ohm	IEC 60093	2E+16
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	600
<b>Other properties (23 °C)</b>				
Density		g/cm <sup>3</sup>	ISO 1183	1.080

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<b>Processing conditions for test specimens</b>				
C Injection molding-Melt temperature		°C	ISO 294	240
C Injection molding-Mold temperature		°C	ISO 294	70
C Injection molding-Injection velocity		mm/s	ISO 294	40

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.