

Lustran 1146

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 230 °C/3.8 kg	ASTM D 1238	g/10 min	1
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	4
Melt Flow Rate, 250 °C/5 kg	ASTM D 1238	g/10 min	5
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	9.5
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	5700
Tensile Modulus	ASTM D 638	psi x 10 ³	340
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	350
Flexural Stress at 5% Deflection	ASTM D 790	psi	9400
Hardness, Rockwell	ASTM D 785	R scale	100
Maximum Force, FM - Penetration Test, -30 °C		-	5
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°F	223
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	173
DTUL @ 66 psi - Unannealed	ASTM D 648	°F	198
Coefficient of Linear Thermal Expansion	ASTM D 696	10 ⁻⁴ /°F	0.51
Other Properties			
Density	ASTM D 792	-	1.03
Processing			
Linear Mold Shrinkage	ASTM D 955	in/in	0.004 - 0.006
Drying Temperature		°F	175
Drying Time		h	2-4

Typical values for uncolored products

DISCLAIMER

The above information is provided in good faith. INEOS Styrolution is not responsible for any processing or compounding which may occur to product finished articles, packaging materials or their components. Further, INEOS Styrolution MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND, REGARDING THE INFORMATION GIVEN OR THE PRODUCTS DESCRIBED, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES, REPRESENTATIONS AND CONDITIONS, INCLUDING WITHOUT LIMITATION ALL WARRANTIES AND CONDITIONS OF QUALITY, MERCHANTABILITY AND SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Responsibility for use, storage, handling and disposal of the products described herein is that of the purchaser or end user.