

Technisches Datenblatt

- Material : Polystyrol Neuware
- Eigenschaften : hochschlagfest, hohe Steifigkeit

<i>Properties</i>	<i>Test conditions</i>	<i>Test method</i>	<i>Units</i>	<i>Values</i>
<i>Gerneral</i>				
Density		ISO 1183	g/cm ³	1,06
Water absorption		ISO 62	g/cm ³	<0,1
<i>Mechanical</i>				
Tensile stress at yield	50 mm/min	ISO 527	MPa	24
Tensile stress at break	50 mm/min	ISO 527	MPa	29
Tensile strain at break	50 mm/min	ISO 527	%	60
Tensile modulus	1 mm/min	ISO 527	MPa	2000
Flexural strength	2 mm/min	ISO 178	MPa	43
Izod impact strength, notched	+23°C 3,2 mm	ISO 180 /4A	J/m	100
	+23°C 4,0 mm	ISO 180 /1A	kJ/m ²	8
	-30°C 4,0 mm	ISO 180 /1A	kJ/m ²	6
<i>Thermal</i>				
Vicat softening temperture	10 N – 120°C/h	ISO 306/A 120	°C	100
	50 N – 120°C/h	ISO 306/B 120	°C	92
<i>Flammability</i>				
Flame behaviour	Thickness 1,5 mm	UL 94	class	HB
<i>Electrical</i>				
Surface resistivity		IEC 60093	10 ¹⁵ ohm	>1.5
Volume resistivity		IEC 60093	10 ¹⁵ ohm*cm	>7
Dielectric strength		IEC 60243	kV/mm	65

