

## HH180

Technical Data Sheet

## High Heat Crystal Extrusion & Foam

### Applications

- Foam Disposables
- Medical
- Oriented Polystyrene Sheet
- Packaging

### Properties

- High Heat Resistance
- High Tensile Strength
- High Stiffness

PROPERTIES	VALUE	METHOD
Melt Flow (gm/10 min)	1.8	ASTM D1238
Specific Gravity (gm/cc)	1.04	ASTM D792
Tensile Strength@Y <sup>(2)</sup> , 2 in/min (psi)	7700	ASTM D638
Tensile Modulus <sup>(2)</sup> , 2 in/min (psi)	423000	ASTM D638
Tensile Elongation <sup>(2)</sup> , 2 in/min (%)	2.0	ASTM D638
Flexural Strength, 0.1 in/min (psi)	15000	ASTM D790B
Flexural Modulus, 0.1 in/min (psi)	456000	ASTM D790B
Notched Izod at 73°F, (ft-lb/in)	0.4	ASTM D256
Vicat Softening Temp.	226	ASTM D1525
Deflection Temp. Under Load <sup>(1)</sup> (F°)	183	ASTM D648
Mold Shrinkage, 24 hours (in / in)	0.003-0.007	ASTM D955
Thermal Expansion, (4x10 <sup>-5</sup> , in/in/°F)	5.0	ASTM D696
Light Transmission (%)	90	ASTM D1003
Haze (%)	1.0	ASTM D1003
Refractive Index (sodium D line)	1.59	ASTM D542

### FDA

This material complies with FDA regulations in 21 CFR, section 177.1640.

### Notes

- (1) DTUL tested under 264 psi.  
 (2) Thickness of samples tested, 0.125 inch.

