

ABS 3450 HI

ABS

Wellman Advanced Materials

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	6	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	44	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	36	MPa	ISO 527
Strain at break	20	%	ISO 527
Flexural modulus, 23°C	2100	MPa	ISO 178
Flexural strength	65	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	20	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	12	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	86	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	101	°C	ISO 75-1/-2
Vicat softening temperature, B	106	°C	ISO 306
Coeff. of linear therm. expansion, parallel	90	E-6/K	ISO 11359-1/-2
Other Standards^[5]			
Thermal Conductivity, solid state	0.25	W/(m K)	ISO 8302
Specific Heat	1600	J/(kg K)	ISO 11357-4

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties	Value	Unit	Test Standard
Density	1050	kg/m ³	ISO 1183

Characteristics**Special Characteristics**

Platable

Regional Availability

North America