

**MAGNUM™ 375 HH**

ABS

Trinseo

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>2.1</b>	g/10min	ASTM D 1238
Temperature	<b>230</b>	°C	-
Load	<b>3.8</b>	kg	-
Mold Shrinkage, MD	<b>0.0057</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.0056</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	<b>2330</b>	MPa	ISO 527
Yield stress	<b>47</b>	MPa	ISO 527
Yield strain	<b>2.9</b>	%	ISO 527
Strain at break	<b>3.5</b>	%	ISO 527
Flexural modulus, 23°C	<b>2300</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>22</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>11</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>16</b>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	<b>10</b>	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	<b>-30</b>	°C	-
<b>ASTM Data</b>			
Tensile Modulus	<b>2303</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>49</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>8.8</b>	MPa	ASTM D 638
Elongation at Yield	<b>3.1</b>	%	ASTM D 638
Elongation at Break	<b>8.8</b>	%	ASTM D 638
Flexural Modulus	<b>2406</b>	MPa	ASTM D 790
Flexural Strength	<b>76.5</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>219</b>	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	<b>133</b>	J/m	ASTM D 256
Temperature	<b>-30</b>	°C	-
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>84</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>98</b>	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	<b>77.4</b>	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	<b>95.4</b>	E-6/K	ASTM D 696
DTUL @ 66 psi	<b>99.4</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>81.7</b>	°C	ASTM D 648
Vicat Temperature	<b>105</b>	°C	ASTM D 1525
<b>Other properties</b>			
Density	<b>1060</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1060</b>	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>82 - 85</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Melt temperature	<b>243 - 271</b>	°C	-
Mold temperature	<b>38 - 66</b>	°C	-
Zone 1	<b>238</b>	°C	-
Zone 2	<b>249</b>	°C	-
Zone 3	<b>254</b>	°C	-
Nozzle temperature	<b>249 - 254</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive

**Special Characteristics**

Heat stabilized or stable to heat

**Regional Availability**

North America, South and Central America