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## Styrene 200-Natural

### Characteristics:

Notched Izod Impact (ft-lb/in / J/m)	2.2HB / 117
Tensile Yield Strength (Psi / MPa)	3,690 / 25
Tensile Peak Strength (Psi / MPa)	3,696 / 26
Tensile Break Strength (Psi / MPa)	3,506 / 24
Tensile Modulus (Psi / MPa)	335,900 / 2,316
Heat Deflection @ 264Psi (°C / °F)	77 / 171
Flexural Strength @ Yield (Psi / MPa)	7,652 / 53
Flexural Strength @ Peak (Psi / MPa)	7,701 / 53
Flexural Modulus (Psi / MPa)	439,400 / 3,029
Melt Flow Rate (g/10 min)	6.5
UL-94 Horizontal Burn Rate (mm / min)	Pass HB(A)

\*CB denotes "complete break" of Izod specimen  
HB denotes "hinge break" of Izod specimen

### Testing Standards:

<b>BASE MATERIAL:</b>	<b>Condition</b> – Colored neutral and in pelletized form
<b>PREPARATION:</b>	<b>Pre-drying</b> – 3-4 hours @ 185°F in an air circulated oven prior to molding and melt flow rate determinations <b>Injection Molding</b> – Per ASTM D 3641 methods, and in accordance with Prospector Database for this type of compound <b>Conditioning</b> - ASTM D 618, 40 hours in a standard laboratory environment
<b>TEST PROCEDURES:</b>	<b>Notched Izod Impact @ 23°C (ft-lb/in – J/m)</b> – ASTM D 256 (1/8" specimen) <b>Tensile Strength (Psi / MPa)</b> – ASTM D 638 (type-I specimen). <b>Heat Deflection @ 264Psi</b> – ASTM D 648 (°C) <b>Flexural Properties (Psi / MPa)</b> – ASTM D 790 <b>Melt Flow Rate (g/10 min)</b> – ASTM D 1238 (200°C/5.0Kg) <b>UL-94 Flammability</b> – UL 94HB, un-annealed (.8mm)