

DuPont™ Zytel® LC6200 BK385

NYLON RESIN

Product Information

DuPont™ Zytel® LC6200 LC6200 long chain polyamide resins provide an innovative and growing portfolio of flexible polymers with excellent thermal, chemical, and hydrolysis resistance. The diverse selection of Zytel® LC6200 grades is targeted for a range of performance characteristics, balancing temperature resistance, flexibility and low permeation.

Zytel® LC6200 BK385 is a toughened polyamide 612 resin for extrusion applications.

| General information | Value | Unit | Test Standard |
|---------------------------------|-------------|-------------------|----------------------|
| Resin Identification | PA612-HI | - | ISO 1043 |
| Part Marking Code | PA612-HI | - | ISO 11469 |
| Mechanical properties (TPE) | dry / cond | Unit | Test Standard |
| Abrasion resistance | 12 / * | mm ³ | ISO 4649 |
| Mechanical properties | dry / cond | Unit | Test Standard |
| Tensile Modulus | 1080 / 720 | MPa | ISO 527-1/-2 |
| Yield stress | 32.2 / 29.2 | MPa | ISO 527-1/-2 |
| Yield strain | 13 / 22 | % | ISO 527-1/-2 |
| Nominal strain at break | 100 / 100 | % | ISO 527-1/-2 |
| Strain at Break, 23°C, 50mm/min | 100 / 100 | % | ISO 527-1/-2 |
| Charpy notched impact strength | | | ISO 179/1eA |
| 73°F | 40 / 80 | kJ/m ² | |
| -22°F | 15 / 15 | kJ/m ² | |
| Izod notched impact strength | | | ISO 180/1A |
| 73°F | 27 / 66 | kJ/m ² | |
| -22°F | 13 / 13 | kJ/m ² | |
| Thermal properties | dry / cond | Unit | Test Standard |
| Melting temperature, 18°F/min | 218 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load | | | ISO 75-1/-2 |
| 260 psi | 46 / * | °C | |
| 65 psi | 85 / * | °C | |
| Thermal conductivity of melt | 0.17 | W/(m K) | - |
| Spec. heat capacity of melt | 2700 | J/(kg K) | - |
| Flammability | Value | Unit | Test Standard |
| FMVSS Class | B | - | ISO 3795 (FMVSS 302) |
| Burning rate, Thickness 1 mm | <100 | mm/min | ISO 3795 (FMVSS 302) |
| Other properties | dry / cond | Unit | Test Standard |
| Density | 1000 / - | kg/m ³ | ISO 1183 |
| Density of melt | 820 | kg/m ³ | - |
| Extrusion | Value | Unit | Test Standard |
| Drying Temperature | 75 - 80 | °C | - |
| Drying Time, Dehumidified Dryer | 3 - 4 | h | - |
| Processing Moisture Content | ≤0.06 | % | - |
| Melt Temperature Optimum | 240 | °C | - |
| Melt Temperature Range | 235 - 250 | °C | - |

Characteristics

| | | | |
|-------------------------|---|---|--|
| Processing | <ul style="list-style-type: none"> Injection Molding Film Extrusion | <ul style="list-style-type: none"> Profile Extrusion Sheet Extrusion | <ul style="list-style-type: none"> Other Extrusion |
| Delivery form | <ul style="list-style-type: none"> Pellets | | |
| Special characteristics | <ul style="list-style-type: none"> Heat stabilized or stable to heat | | |
| Regional Availability | <ul style="list-style-type: none"> North America Europe | <ul style="list-style-type: none"> Asia Pacific South and Central America | <ul style="list-style-type: none"> Near East/Africa Global |

To find out more, visit [DuPont Performance Polymers](#) or contact nearest DuPont location.

North America

Asia Pacific

Europe/Middle East/Africa

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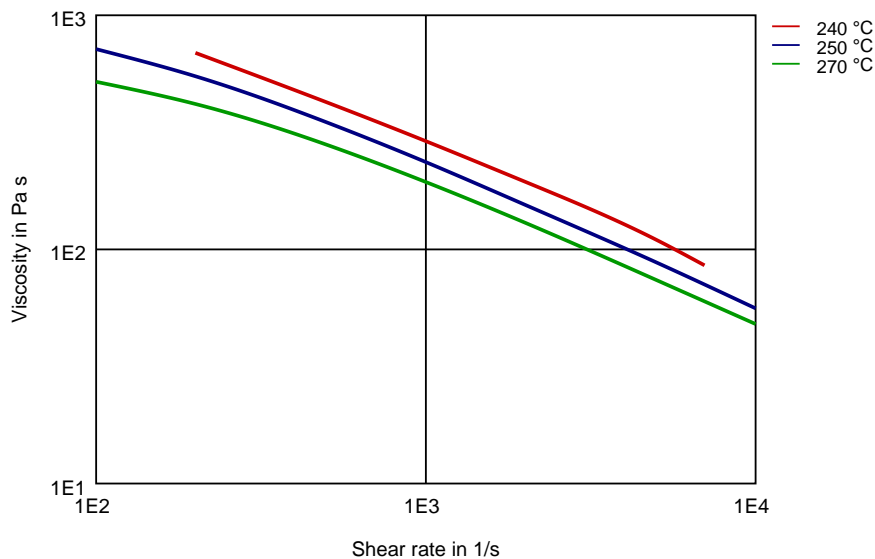


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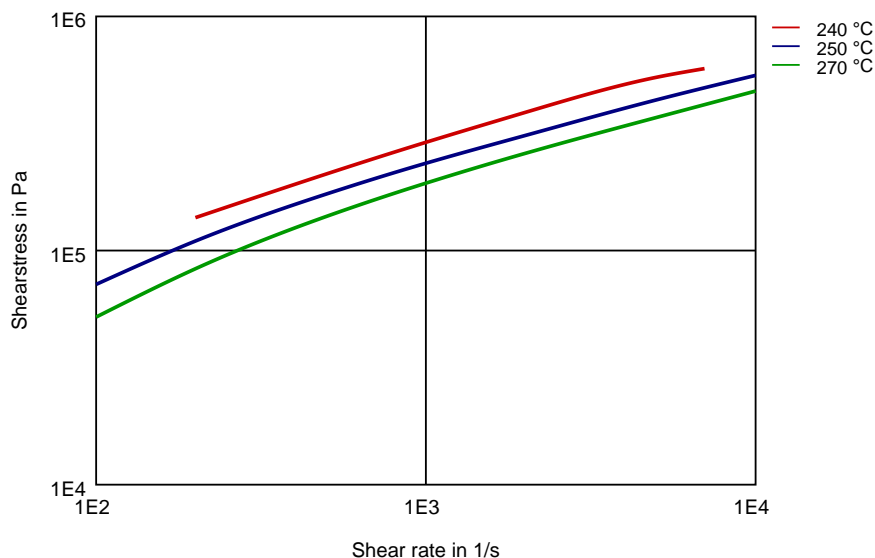
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Diagrams

Viscosity-shear rate



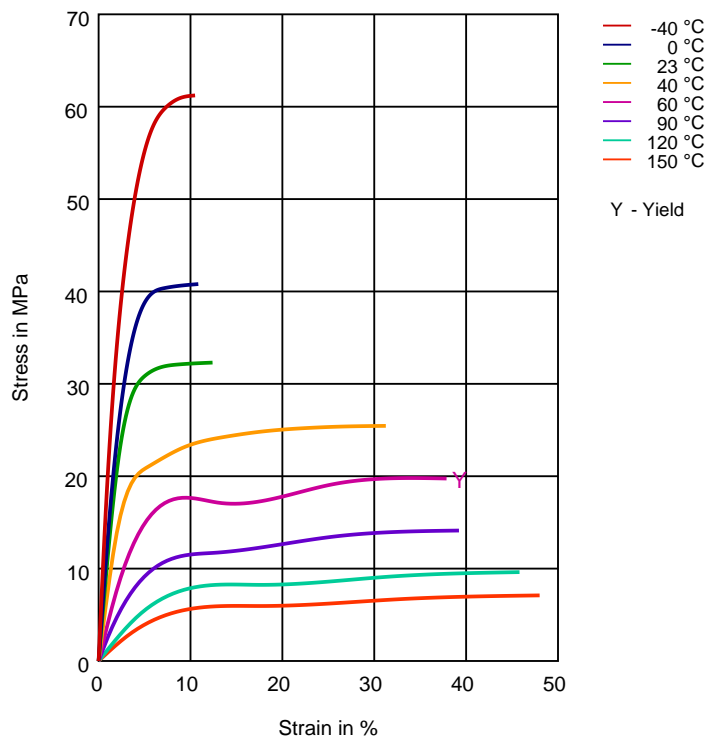
Shearstress-shear rate



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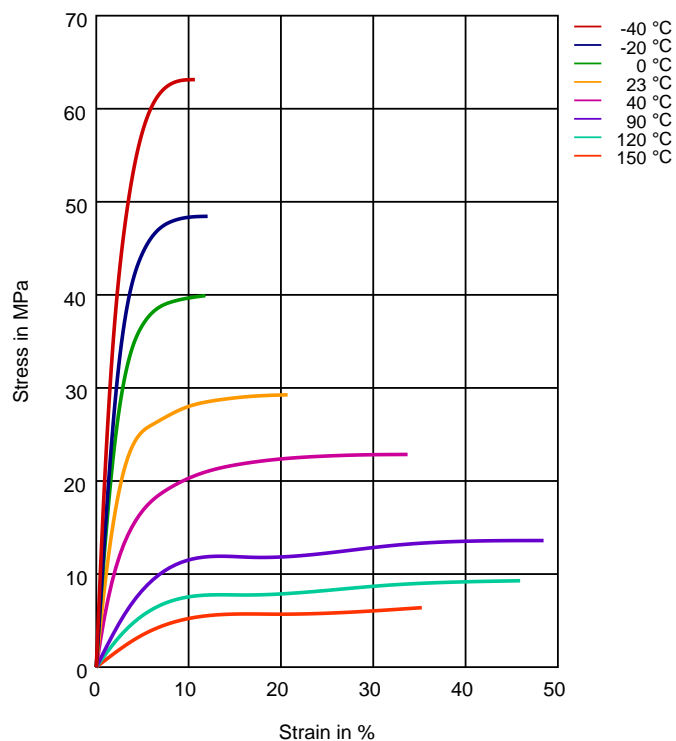
Stress-strain (dry)



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Stress-strain (cond.)



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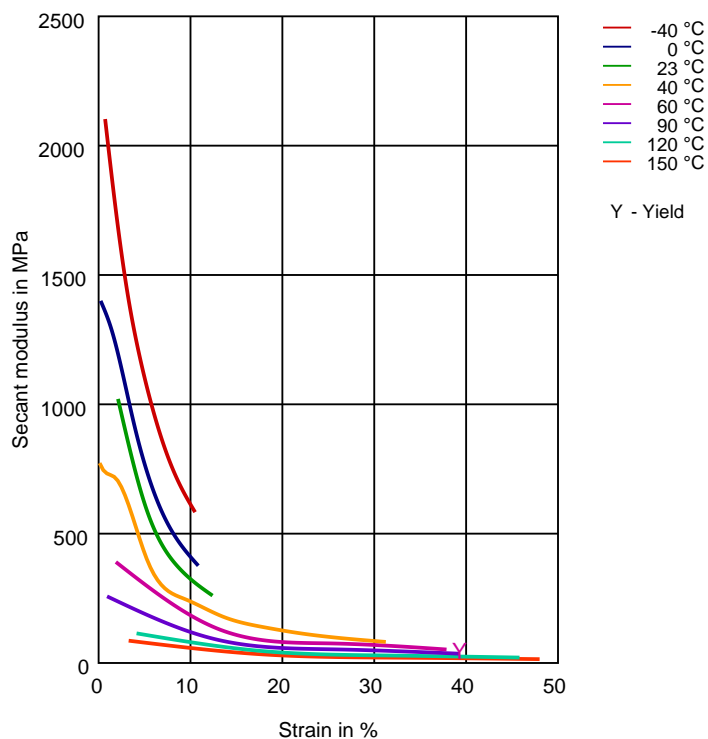
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Secant modulus-strain (dry)



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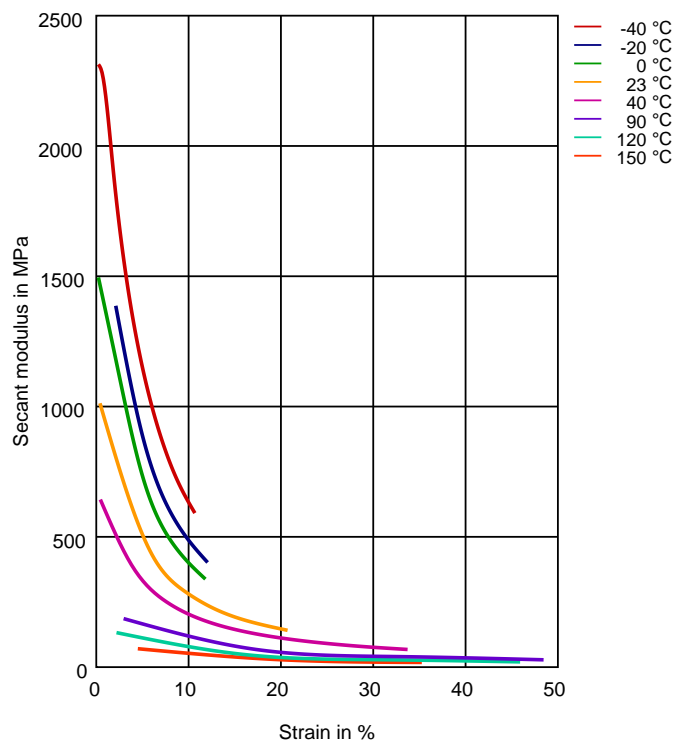
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Secant modulus-strain (cond.)



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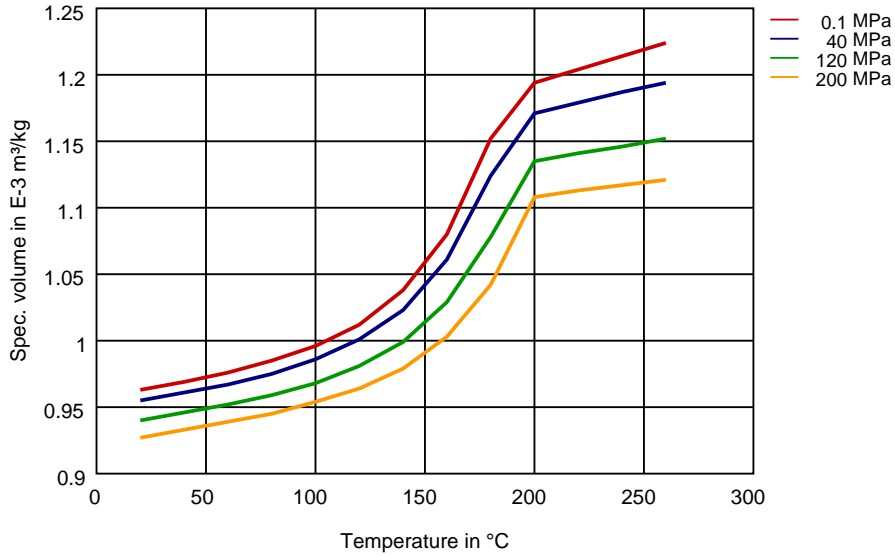
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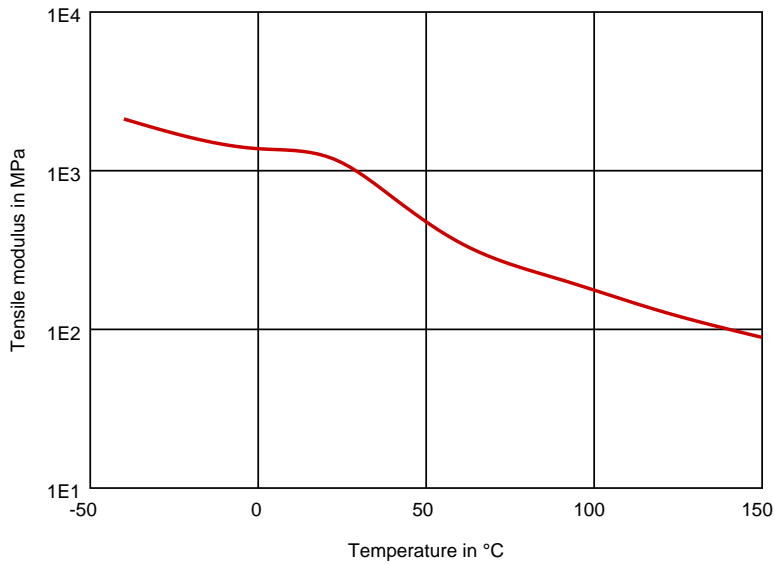
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Specific volume-temperature (pvT)



Tensile modulus-temperature (dry)



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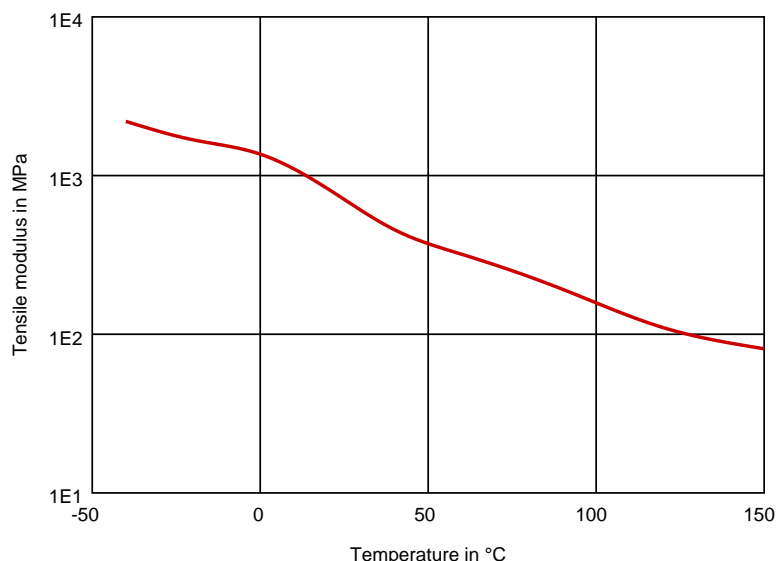
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Tensile modulus-temperature (cond.)



Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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