+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)



XYLEX™ Resin HX7509HP Americas: COMMERCIAL

Medium flow, polycarbonate/Polyester alloy; contains mold release. For medical devices and pharmaceutical applications. Healthcare management of change, biocompatible (ISO 10993 or USP Class VI), food contact compliant. EtO and gamma sterilizable.

| YPICAL PROPERTIES ¹ | TYPICAL VALUE | Unit | Standard |
|--|---------------|-----------|-------------|
| MECHANICAL | | | |
| Tensile Stress, yld, Type I, 50 mm/min | 610 | kgf/cm² | ASTM D 638 |
| Tensile Stress, brk, Type I, 50 mm/min | 640 | kgf/cm² | ASTM D 638 |
| Tensile Strain, yld, Type I, 50 mm/min | 6.3 | % | ASTM D 638 |
| Tensile Strain, brk, Type I, 50 mm/min | 135 | % | ASTM D 638 |
| Tensile Modulus, 50 mm/min | 21800 | kgf/cm² | ASTM D 638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 960 | kgf/cm² | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 23400 | kgf/cm² | ASTM D 790 |
| Tensile Stress, yield, 50 mm/min | 60 | MPa | ISO 527 |
| Tensile Stress, break, 50 mm/min | 62 | MPa | ISO 527 |
| Tensile Strain, yield, 50 mm/min | 5.8 | % | ISO 527 |
| Tensile Strain, break, 50 mm/min | 133 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 2300 | MPa | ISO 527 |
| Flexural Stress, break, 2 mm/min | 92 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 2250 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 87 | cm-kgf/cm | ASTM D 256 |
| Izod Impact, notched, -30°C | 7 | cm-kgf/cm | ASTM D 256 |
| Instrumented Impact Total Energy, 23°C | 785 | cm-kgf | ASTM D 3763 |
| Izod Impact, notched 80*10*4 +23°C | 9 | kJ/m² | ISO 180/1A |
| Izod Impact, notched 80*10*4 -10°C | 6 | kJ/m² | ISO 180/1A |
| Izod Impact, notched 80*10*4 -30°C | 8 | kJ/m² | ISO 180/1A |
| Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm | 10 | kJ/m² | ISO 179/1eA |

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA.

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES (SELLER) ARE SOLD SUBJECT TO SELLER S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPULIED REPRESESNATION, WARRANTY OR GUARANTEE (I) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (II) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATION SELLER S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller s materials, products, services or recommendations for the user s particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statements shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller or as a recommendation for the use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right.

SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.

© 2015 Saudi Basic Industries Corporation (SABIC).





⁽¹⁾ Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)



XYLEX™ Resin HX7509HP

Americas: COMMERCIAL

| YPICAL PROPERTIES ¹ | TYPICAL VALUE | Unit | Standard |
|---|---------------|-------------------------|--------------|
| THERMAL | | | |
| Vicat Softening Temp, Rate B/50 | 126 | °C | ASTM D 1525 |
| HDT, 0.45 MPa, 3.2 mm, unannealed | 119 | °C | ASTM D 648 |
| HDT, 1.82 MPa, 3.2mm, unannealed | 106 | °C | ASTM D 648 |
| CTE, -40°C to 40°C, flow | 1.04E-04 | 1/°C | ASTM E 831 |
| CTE, -40°C to 40°C, xflow | 1.04E-04 | 1/°C | ASTM E 831 |
| Thermal Conductivity | 0.23 | W/m-°C | ISO 8302 |
| CTE, -40°C to 40°C, flow | 6.8E-05 | 1/°C | ISO 11359-2 |
| CTE, -40°C to 40°C, xflow | 6.8E-05 | 1/°C | ISO 11359-2 |
| Vicat Softening Temp, Rate B/50 | 125 | °C | ISO 306 |
| Vicat Softening Temp, Rate B/120 | 126 | °C | ISO 306 |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 108 | °C | ISO 75/Af |
| PHYSICAL | | | |
| Specific Gravity | 1.2 | = | ASTM D 792 |
| Mold Shrinkage, flow, 3.2 mm (5) | 0.4 - 0.6 | % | SABIC Method |
| Mold Shrinkage, xflow, 3.2 mm (5) | 0.5 - 0.7 | % | SABIC Method |
| Melt Flow Rate, 265°C/2.16kgf | 12 | g/10 min | ASTM D 1238 |
| Density | 1.2 | g/cm³ | ISO 1183 |
| Water Absorption, (23°C/sat) | 0.12 | % | ISO 62 |
| Moisture Absorption (23°C / 50% RH) | 0.05 | % | ISO 62 |
| Melt Volume Rate, MVR at 265°C/2.16 kg | 11 | cm ³ /10 min | ISO 1133 |
| OPTICAL | | | |
| Light Transmission, 2.54 mm | 88 | % | ASTM D 1003 |
| Haze, 2.54 mm | 2 | % | ASTM D 1003 |
| FLAME CHARACTERISTICS | | | |
| UL Recognized, 94V-2 Flame Class Rating (3) | 0.75 | mm | UL 94 |

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA.

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES (SELLER) ARE SOLD SUBJECT TO SELLER S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (I) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (II) AS TO THE EFFECTIVENEYS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATION SELLER S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. DILESS OTHERWISE PROVIDED IN SELLER S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller of Standard Conditions of the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller or as a recommendation for the use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right.

SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.

©2015Saudi Basic Industries Corporation (SABIC).





⁽¹⁾ Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)



XYLEX™ Resin HX7509HP

Americas: COMMERCIAL

| ROCESSING PARAMETERS | TYPICAL VALUE | Unit | |
|-----------------------------|---------------|------|--|
| Injection Molding | | | |
| Drying Temperature | 65 - 80 | °C | |
| Drying Time | 3 - 5 | hrs | |
| Drying Time (Cumulative) | 8 | hrs | |
| Maximum Moisture Content | 0.02 | % | |
| Melt Temperature | 250 - 270 | °C | |
| Nozzle Temperature | 250 - 270 | °C | |
| Front - Zone 3 Temperature | 250 - 270 | °C | |
| Middle - Zone 2 Temperature | 245 - 270 | °C | |
| Rear - Zone 1 Temperature | 245 - 260 | °C | |
| Mold Temperature | 45 - 60 | °C | |
| Back Pressure | 0.1 - 0.5 | MPa | |
| Screw Speed | 20 - 100 | rpm | |
| Shot to Cylinder Size | 40 - 80 | % | |
| Vent Depth | 0.013 - 0.02 | mm | |

[•] Parts may initially appear hazy directly from the mold, but will clear upon reaching ambient temperature.

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

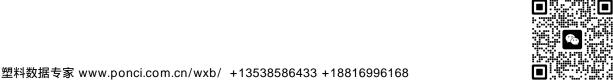
Source GMD, last updated:

PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA.

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES (SELLER) ARE SOLD SUBJECT TO SELLER S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (I) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (II) AS TO THE EFFECTIVENEYS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATION SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DUESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller of Standard Conditions of the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller or as a recommendation for the use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right.

SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.

©2015Saudi Basic Industries Corporation (SABIC).





⁽²⁾ Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.