

# Product Descriptions

## Elastomers

**RP 6473 Si R/H Moldmaking Silicone** is a transparent material with an elongation of 300% and tear strength of 60 ppi.

**RP 6481 R/H Shore 60-65A PUR** is a soft elastomer with an elongation of 300% and tear strength of 140 ppi.

**RP 6482 R/H Shore 70-75A PUR** is a flexible elastomer that exhibits an elongation of 325% and tear strength of 190 ppi.

**RP 6483 R/H Shore 80-85A PUR** is a flexible elastomer with an elongation of 325% and tear strength of 320 ppi.

**RP 6484 R/H Shore 90-95A PUR** is a resilient elastomer that offers an elongation of 225% and tear strength of 480 ppi.

## Low Flexural Modulus (up to 100,000 psi)

**RP 6457 R/H Shore 65D Large Part PUR** has a flexural modulus of 78,000 psi and a notched Izod impact strength of 0.8ft. lb./in.

**RP 6480 R/H Rigid PUR Foam** features a heat deflection temperature of 138°F and a cured density of 13-21 lb./ft.<sup>3</sup>.

**RP 6487 R/H Ultra High Impact, High HOT PUR** has a flexural modulus of 85,000 psi, a notched Izod impact strength of 6.4 ft. lb./in., and a heat deflection temperature of 209°F after postcuring.

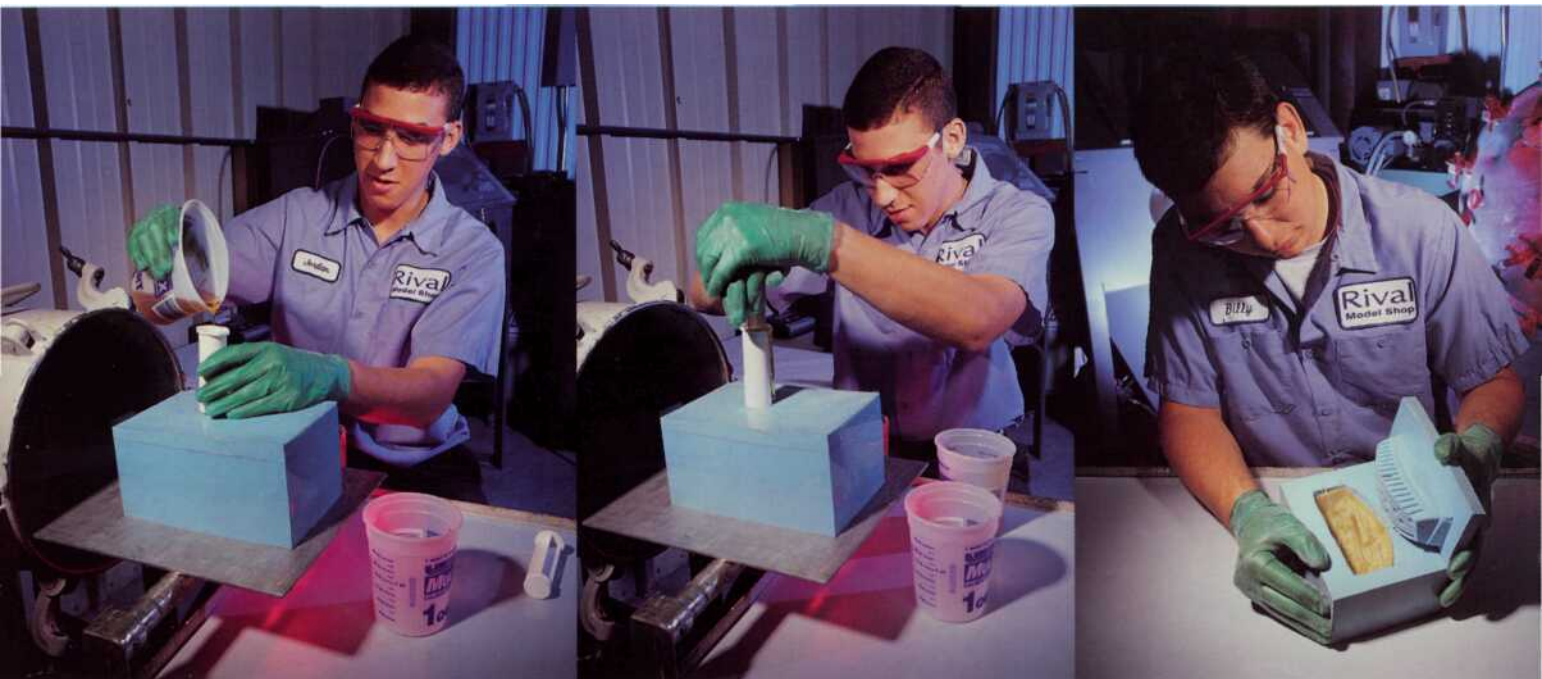
## Medium Flexural Modulus (from 100,000 to 250,000 psi)

**RP 6450 R/H 55-Second PUR** has a flexural modulus of 184,000 psi along with a combination of good dimensional stability, a heat deflection temperature of 252°F, and a notched Izod impact strength of 0.9 ft. lb./in.

**RP 6451 R/H 75-Second PUR** has a flexural modulus of 181,000 psi and features a heat deflection temperature of 259°F and a Compressive strength of 17,900 psi.

**RP 6452 R/H High Impact PUR** has a flexural modulus of 201,000 psi, a notched Izod impact strength of 1.4 ft. lb./in., a Compressive strength of 22,300 psi and an elongation of 13%.

**RP 6453-1 R/H Flame Retardant PUR** has a flexural modulus of 240,000 psi. It exhibits a UL 94 V-O rating along with a heat deflection temperature of 158°F.



**RP 6456 R/H Shore 70D PUR** has a **flexural modulus of 148,000 psi** and is supplied in dual-barrel cartridges for manual dispensing as well as in cans for use with automated meter/mix equipment. The system has a notched Izod impact strength of 0.7 ft. lb./in. and a heat deflection temperature of 210°F.

**RP 6459 R/H Shore 80D, Clear PUR** has a **flexural modulus of 168,000 psi** and produces transparent prototypes with a notched Izod impact strength of 1.3 ft. lb./in., a Compressive strength of 30,700 psi, and an elongation of 26%.

**RP 6460 R/H High Heat PUR** has a **flexural modulus of 174,000 psi**. It features a heat deflection temperature of 275°F and a notched Izod impact strength of 1 ft. lb./in.

**RP 6462 R/H Fast, High Impact, High Heat PUR** has a flexural modulus of 120,000 psi and combines a high heat deflection temperature of 194°F with a notched Izod impact strength of 2.3 ft. lb./in. Higher mechanical properties can be achieved with a postcure.

**RP 6463 R/H Slow, Crystal Clear PUR** has a **flexural modulus of 250,000 psi** and a heat deflection temperature of 136°F. It has a 1:1 mix ratio by weight to facilitate hardener blending for customizing gel times. The slow hardener yields a gel time of 18 to 25 minutes.

**RP 6463 R/H Fast, Crystal Clear PUR** has a **flexural modulus of 230,000 psi**, heat deflection temperature of 152°F, and tensile strength of 6,600 psi. Gel time is less than six minutes.

**RP 6486 R/H Slow, Ultra High Impact PUR** has a **flexural modulus of 110,000 psi** with an eight-minute gel time, a notched Izod impact strength of 6.6 ft. lb./in. and a heat deflection temperature of 216°F after heat curing.

**RP 6486 R/H Fast, Ultra High Impact PUR** has a **flexural modulus of 101,000 psi** and features a 150-second gel time, a notched Izod impact strength of 6.3 ft. lb./in., and a heat deflection temperature of 201 °F after heat curing.

## High Flexural Modulus (250,000+ psi)

**RP 6454 R/H High Flexural Modulus PUR** has a **flexural modulus of 313,000 psi**, a flexural strength of 11,700 psi and an elongation of 12%.

**RP 6455 R/H 2-Minute PUR** has a **flexural modulus of 262,000 psi**. For casting large parts, it has an elongation of 15% and a Compressive strength of 32,400 psi.

**RP 6458 R/H Very High Flexural Modulus PUR** has an ABS-like **flexural modulus of 432,000 psi**, a flexural strength of 16,500 psi and a tensile strength of 9,500 psi.

**RP 6461 R/H 300°F, Ultra High-Temperature Resistant PUR** has a **flexural modulus of 246,000 psi**. The rigid material features a high heat deflection temperature of 309°F after postcuring, a Compressive strength of 32,000 psi and a flexural strength of 11,700 psi.

