**Bluesil™ HCR 1920 U A2**

**HEAT CURED SILICONE RUBBER**

**Description**
Bluesil™ HCR 1920 U A2 is a silicone master-batch, vulcanizing under heat after addition of a vulcanizing agent (chosen according to the transformation procedure).

**Applications**
Moulding, extrusion of articles with good mechanical properties.

**Special properties**
- Slight replastification after prolonged storage
- Easy to process; no sticky to rolls; easy to demold
- No post-cure or slight post-cure
- Low hardness, and good mechanical properties
- Good stability up to 200°C
- Bright colors easily obtained with Bluestar Silicones SC color bases
- Wide range of reloading or blending

**Characteristics**
- Type (in accordance with ISO 1629-1995). ................. VMQ
- Density at 25°C, g/cm³, approx.......................... 1.09
- Aspect .......................................................... Translucent

**Properties after working**
After addition of 1.1% 2,5-dimethyl-2,5-di(tert-butylperoxy)hexane (at 45%), and vulcanization for 5 minutes at 175°C

### 1. Mechanical properties

#### 1.1 Properties without post-cure
- Shore A hardness, approx......................... 20
- Tensile strength, MPa, approx....................... 8
- Elongation at break, %, approx...................... 1007
- Modulus at 100% elongation, MPa, approx........ 0.3
- Tear strength (ASTM D 624 Die C), kN/m, approx....... 15
- Rebound resilience, %, approx...................... 50

#### 1.2 Properties after post-cure for 4 hours at 200°C
- Shore A hardness, approx............................. 23
- Tensile strength, MPa, approx........................ 6.2
- Elongation at break, %, approx...................... 639
- Modulus at 100% elongation, MPa, approx........ 0.4
- Tear strength (ASTM D 624 Die C), kN/m, approx..... 15
- Compression set (22h/177°C/25%), %, approx......... 42
- Rebound resilience, %, approx...................... 49

**Packaging**
Bluesil™ HCR 1920 U A2 is delivered in 20 kg carton boxes.

**Storage and shelf life**
Bluesil™ HCR 1920 U A2 may be stored in its original unopened packaging at a temperature below 40°C for up to 4-6 months from the date of manufacture marked clearly on the packaging. Past this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications.

**Safety**
Consult the Safety Data Sheet of Bluesil™ HCR 1920 U A2.

Visit our website: [www.lxxh.chemchina.com](http://www.lxxh.chemchina.com)

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