

Taiwan PU Corporation UR70 Polyester Urethane Rubber

Category : Polymer , Thermoset , Polyurethane, TS , Rubber or Thermoset Elastomer (TSE)

Material Notes:

UR70 is a polyester urethane rubber which is an easy to process millable gum especially developed for improved compounding and processing benefits. It can be processed and compounded by the use of conventional rubber manufacturing equipment and techniques to yield finished urethane parts. Compounds of urethane rubber can be molded by compression, injection, and transfer molding procedures. Excellent mold definition is obtainable in press cures. The linear shrinkage of vulcanizates of UR varies somewhat with the type of loading, but, in general this value is approximately 1.5%, which is comparable to that of neoprene. Excellent mold release is provided by lubricant of M-7 or silicone mold release lubricants, but indiscriminate use can cause poor flow and knitting problems. Information provided by Taiwan PU Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Taiwan-PU-Corporation-UR70-Polyester-Urethane-Rubber.php

| Physical Properties | Metric | English | Comments |
|---------------------|---------------------------------|---------------------------------|----------|
| Specific Gravity | 1.15 g/cc | 1.15 g/cc | |
| Mooney Viscosity | 35 - 65 @Temperature 100 Â°C | 35 - 65 @Temperature 212 Â°F | ML 1-4 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------|----------|--------------------|
| Hardness, Shore A | 70 | 70 | |
| Tensile Strength at Break | 19.4 MPa | 2820 psi | |
| Elongation at Break | 600 % | 600 % | |
| 300% Modulus | 0.00758 GPa | 1.10 ksi | |
| Tear Strength | 42.9 kN/m | 245 pli | Die C |
| Compression Set | 70 % | 70 % | 22 hours at 158Â°C |

| Processing Properties | Metric | English | Comments |
|------------------------|-----------------|---------------------|----------|
| Processing Temperature | 152 - 171 Â°C | 305 - 340 Â°F | |
| Cure Time | 5.00 - 45.0 min | 0.0833 - 0.750 hour | |

| Descriptive Properties | Value | Comments |
|------------------------|-----------------------|----------|
| Color | White to cream | |
| Health Hazard | None | |
| Odor | Faint, characteristic | |

| Descriptive Properties | Value | Comments |
|------------------------|-----------|----------|
| Physical Form | Solid | |
| Storage Stability | Excellent | |

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