

Taiwan PU Corporation UR50 Polyester Urethane Rubber

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

Material Notes:

UR50 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-UR50-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	50	50	
Tensile Strength at Break	26.9 MPa	3900 psi	
Elongation at Break	700 %	700 %	
300% Modulus	0.00331 GPa	0.480 ksi	
Tear Strength	31.6 kN/m	180 pli	Die C
Compression Set	49 %	49 %	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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