

Tool-A-Thane UT-5

Polyurethane
Urethane Tooling & Engineering Corp

Message:

5% Deflection for optimum life
Hardness 79 Shore D
Greatest abrasion and wear resistance
Excellent machinability
Highest loadbearing capacity
closest to steel replacement in standard forming operations i.e. matching dies, blocks, jaws, etc.

General Information			
Features	Good Abrasion Resistance		
	Good Wear Resistance		
	Machinable		
Uses	Molds/Dies/Tools		
Physical	Nominal Value	Unit	
Specific Gravity	1.12	g/cm ³	
Molding Shrinkage - Flow	1.8	%	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	75		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction ¹ (vs. Steel - Dynamic)	0.22		
Abrasion Resistance - NBS Index	470		
Graves Tear	189.1	kN/m	
Bayshore Resistance - NBS Index	53.0		
Penetration Depth - Recommended for optimum life	5.0	%	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	25.5	MPa	
Tensile Strength	52.4	MPa	
Tensile Elongation (Break)	250	%	
Tear Strength (Split)	18	kN/m	ASTM D470
Compression Set ² (70°C, 22 hr)	53	%	
Thermal	Nominal Value	Unit	
Brittleness Temperature	-67.8	°C	
NOTE			
1.	at 20 lbs load at 52 fpm		
2.	Method B		

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