FLEXIBLE POLYURETHANES | FLEX-15

priorityprototypes

COLOR (MIXED)
Amber

NOTABLE FOR
Fast cycle time
Good for overmolding
High tensile and tear strength

COMPARABLE TO
TPE/ Rubber Band

COMMON USES
Soft Rubber Handles
Medical Training Models

MECHANICAL PROPERTIES	TEST METHOD	UNIT (ENGLISH)
Cured Hardness, Shore A	ASTM D2240-04el	15 ± 5
Density, lb./cu. Inch	ASTM D792-00	0.0369
Tensile Strength, psi	ASTM D412-98a(2002)el	455
Elongation at Break, %	ASTM D412-98a(2002)el	1,000
Tensile Modulus, psi	ASTM D412-98a(2002)el	140
Tear Strength, pli	ASTM D624-00el	42

*Note: Mechanical properties taken when cured 7 days @ Ambient temperature. Mechanical properties change as curing time and temperature change.

FLEXIBLE POLYURETHANES | FLEX-30

priorityprototypes

COLOR (MIXED)
Amber

NOTABLE FOR
Fast cycle time
High tensile and tear strength

COMPARABLE TO
TPE

COMMON USES
Overmolding
Special Effects/Props

MECHANICAL PROPERTIES	TEST METHOD	UNIT (ENGLISH)
Cured Hardness, Shore A	ASTM D2240-04el	30 ± 5
Density, lb./cu. Inch	ASTM D792-00	0.0372
Tensile Strength, psi	ASTM D412-98a(2002)el	810
Elongation at Break, %	ASTM D412-98a(2002)el	970
Tensile Modulus, psi	ASTM D412-98a(2002)el	165
Tear Strength, pli	ASTM D624-00el	80

*Note: Mechanical properties taken when cured 7 days @ Ambient temperature. Mechanical properties change as curing time and temperature change.

FLEXIBLE POLYURETHANES | FLEX-40

priorityprototypes

COLOR (MIXED)
Amber

NOTABLE FOR
Fast cycle time
Easy to pigment

COMPARABLE TO
TPE
Pencil Eraser

COMMON USES
Key Pads
Overmolding

MECHANICAL PROPERTIES	TEST METHOD	UNIT (ENGLISH)
Cured Hardness, Shore A	ASTM D2240-04el	40 ± 5
Density, lb./cu. Inch	ASTM D792-00	0.0376
Tensile Strength, psi	ASTM D412-98a(2002)el	759
Elongation at Break, %	ASTM D638-03	793
Tensile Modulus, psi	ASTM D412-98a(2002)el	144
Tear Strength, pli	ASTM D624-00el	80

*Note: Mechanical properties taken when cured 7 days @ Ambient temperature. Mechanical properties change as curing time and temperature change.

FLEXIBLE POLYURETHANES | FLEX-50

priorityprototypes

COLOR (MIXED)
Amber

NOTABLE FOR
Fast cycle time
Easy to pigment

COMPARABLE TO
TPE
General Purpose Rubber

COMMON USES
Overmolding
Special Effects/Props

MECHANICAL PROPERTIES	TEST METHOD	UNIT (ENGLISH)
Cured Hardness, Shore A	ASTM D2240-04el	50 ± 5
Density, lb./cu. Inch	ASTM D792-00	0.0383
Tensile Strength, psi	ASTM D412-98a(2002)el	931
Elongation at Break, %	ASTM D638-03	748
Tensile Modulus, psi	ASTM D412-98a(2002)el	243
Tear Strength, pli	ASTM D624-00el	114

*Note: Mechanical properties taken when cured 7 days @ Ambient temperature. Mechanical properties change as curing time and temperature change.

FLEXIBLE POLYURETHANES | FLEX-60

priorityprototypes

COLOR (MIXED)
Amber

NOTABLE FOR
Fast cycle time
High tensile and tear strength

COMPARABLE TO
TPE
General Purpose Rubber

COMMON USES
Overmolding

MECHANICAL PROPERTIES	TEST METHOD	UNIT (ENGLISH)
Cured Hardness, Shore A	ASTM D2240-04el	60 ± 5
Density, lb./cu. Inch	ASTM D792-00	0.0386
Tensile Strength, psi	ASTM D412-98a(2002)el	1,260
Elongation at Break, %	ASTM D638-03	715
Tensile Modulus, psi	ASTM D412-98a(2002)el	340
Tear Strength, pli	ASTM D624-00el	150

*Note: Mechanical properties taken when cured 7 days @ Ambient temperature. Mechanical properties change as curing time and temperature change.

FLEXIBLE POLYURETHANES | FLEX-70

priorityprototypes

COLOR (MIXED)
Amber

NOTABLE FOR
Fast cycle time
High tensile and tear strength

COMPARABLE TO
TPE
Tire Rubber

COMMON USES
Overmolding

MECHANICAL PROPERTIES	TEST METHOD	UNIT (ENGLISH)
Cured Hardness, Shore A	ASTM D2240-04el	70 ± 5
Density, lb./cu. Inch	ASTM D792-00	0.0394
Tensile Strength, psi	ASTM D412-98a(2002)el	1,429
Elongation at Break, %	ASTM D638-03	1,183
Tensile Modulus, psi	ASTM D412-98a(2002)el	695
Tear Strength, pli	ASTM D624-00el	225

*Note: Mechanical properties taken when cured 7 days @ Ambient temperature. Mechanical properties change as curing time and temperature change.

FLEXIBLE POLYURETHANES | FLEX-80

priorityprototypes

COLOR (MIXED)

Amber

NOTABLE FOR

Fast cycle time
High tensile and tear strength

COMPARABLE TO

TPE
Hydraulic O-Rings

COMMON USES

O-Rings
Overmolding

MECHANICAL PROPERTIES	TEST METHOD	UNIT (ENGLISH)
Cured Hardness, Shore A	ASTM D2240-04el	80 ± 5
Density, lb./cu. Inch	ASTM D792-00	0.0399
Tensile Strength, psi	ASTM D412-98a(2002)el	2,100
Elongation at Break, %	ASTM D638-03	790
Tensile Modulus, psi	ASTM D412-98a(2002)el	1,620
Tear Strength, pli	ASTM D624-00el	280

*Note: Mechanical properties taken when cured 7 days @ Ambient temperature. Mechanical properties change as curing time and temperature change.

FLEXIBLE POLYURETHANES | FLEX-90

priorityprototypes

COLOR (MIXED)
Amber

NOTABLE FOR
Fast cycle time
Easy to pigment

COMPARABLE TO
TPE
Squeegee

COMMON USES
Overmolding

MECHANICAL PROPERTIES	TEST METHOD	UNIT (ENGLISH)
Cured Hardness, Shore A	ASTM D2240-04el	90 ± 5
Density, lb./cu. Inch	ASTM D792-00	0.0394
Tensile Strength, psi	ASTM D412-98a(2002)el	3,170
Elongation at Break, %	ASTM D638-03	1,165
Tensile Modulus, psi	ASTM D412-98a(2002)el	1,710
Tear Strength, pli	ASTM D624-00el	360

*Note: Mechanical properties taken when cured 7 days @ Ambient temperature. Mechanical properties change as curing time and temperature change.

FLEXIBLE POLYURETHANES | FLEX-95

priorityprototypes

COLOR (MIXED)

Amber

NOTABLE FOR

Fast cycle time
Easy to pigment

COMPARABLE TO

TPE

COMMON USES

Shopping Cart Wheels
Strain Reliefs

MECHANICAL PROPERTIES	TEST METHOD	UNIT (ENGLISH)
Cured Hardness, Shore A	ASTM D2240-04el	95 ± 5
Density, lb./cu. Inch	ASTM D792-00	0.0402
Tensile Strength, psi	ASTM D412-98a(2002)el	3,273
Elongation at Break, %	ASTM D638-03	776
Tensile Modulus, psi	ASTM D412-98a(2002)el	5,516
Tear Strength, pli	ASTM D624-00el	435

*Note: Mechanical properties taken when cured 7 days @ Ambient temperature. Mechanical properties change as curing time and temperature change.