



**PIERCAN USA INC.**

*"Your critical link between product and personnel"*



**GLOVE POLYMER REFERENCE GUIDE**

| Natural Rubber (R) | Electro Static Dissipative Natural Rubber (ESD R) | Neoprene (N) | Electro Static Dissipative Neoprene (ESD N) | Butyl Viton® (BV) | Polyurethane Rad Shield Neoprene/CSM (USY) | CSM (Y) | Butyl (B) | Polyurethane (U) | Polyurethane/CSM (UY) |
|--------------------|---|--------------|---|-------------------|--|---------|-----------|------------------|-----------------------|
|--------------------|---|--------------|---|-------------------|--|---------|-----------|------------------|-----------------------|

| <b>MECHANICAL PROPERTIES</b>   |      |      |      |      |      |      |      |      |     |     |
|--------------------------------|------|------|------|------|------|------|------|------|-----|-----|
| Tensile strength MPa           | 29   | 25   | 22   | 20   | 18   | 8    | 23   | 12   | 60  | 30  |
| Elongation at break %          | 930  | 750  | 1000 | 800  | 900  | 500  | 500  | 750  | 700 | 600 |
| Hardness durometer A           | 45   | 50   | 50   | 60   | 55   | 70   | 60   | 40   | 70  | 60  |
| Abrasion resistance            | B    | B    | C    | C    | C    | C    | C    | C    | A   | C   |
| Tear resistance                | B    | B    |      |      |      |      |      |      | A   | A   |
| Puncture resistance            | B    | B    | C    | C    | C    | B    | C    |      | A   | A   |
| Flame resistance               |      |      | A    | B    | A    | A    |      |      |     |     |
| Using limit low Temp. C        | -60  | -60  | -30  | -30  | -20  | -20  | -20  | -50  | -40 | -20 |
| Using limit high Temp. C       | +100 | +100 | +130 | +130 | +130 | +130 | +130 | +140 | +80 | +80 |
| Gas impermeability             |      |      | B    | B    | A    | B    | B    | A    | B   | B   |
| <b>CHEMICAL PROPERTIES</b>     |      |      |      |      |      |      |      |      |     |     |
| U.V. Rays                      |      |      | B    | B    | A    | A    | A    | A    | B   | A   |
| Ozone                          |      |      | C    | B    | A    | A    | A    | B    | B   | A   |
| Concentrated oxidizing acids   |      |      | C    | C    | A    | B    | B    | A    |     | B   |
| Concentrated reduced acids 50% | C    | C    | B    | B    | A    | A    | A    | A    |     | A   |
| Diluted acids                  | A    | A    | A    | A    | A    | A    | A    | A    |     | A   |
| Concentrated alkali's 50%      | B    | B    | C    | B    | B    | B    | B    | A    | B   | B   |
| Dilutes alkalis' and salt      | A    | A    | B    | B    | A    | A    | A    | A    | B   | B   |
| Oils                           |      |      | B    | B    | A    | C    | C    | C    | B   | C   |
| Aliphatic solvents             |      |      | B    | B    | A    | C    | B    | C    | A   | B   |
| Aromatic solvents              |      |      | C    |      | A    |      |      |      | C   |     |
| Ketonic solvents               | B    | B    | C    | C    |      | C    | C    | A    |     | C   |

| <b>Legend</b> |  |
|---------------|--|
| A             | Excellent, little or no swelling or softening or surface deterioration.                        |
| B             | Good chemical resistance. Minor chemical attack, swelling, softening or surface deterioration. |
| C             | Limited chemical resistance. Moderate chemical attack. Conditional service.                    |
| □             | Not recommended  |