



Polymers Quick Reference Guide

A Excelent : B Good : C Average : D Fair : E Poor

| | Natural | Nitrile | Neoprene | Hypalon | Silicone | Poly-Urethane | EPDM | Fluro-elastomer |
|----------------------------|---------|---------|----------|---------|----------|---------------|-------|-----------------|
| Hardness Range | 20-90 | 25-90 | 30-85 | 50-95 | 50-80 | 30-95 | 65-80 | 70-75 |
| Max. Service temperature | 80c | 120c | 120c | 140c | 260c | 80-120c | 140c | 260c |
| Tear resistance | A | C | B | B | E | A | C | C |
| Abrasion resistance | A | C | C | C | E | A | B | D |
| Resistence to denting | A | C | D | D | A | C | C | C |
| Ozone resistance | E | E | C | C | A | B | A | A |
| Resiliency | A | C | B | B | A | C | B | C |
| Load Bearing | A | B | B | B | E | A | C | C |
| Acids | C | D | C | C | B | D/E | A | A |
| Alcohols | A | A | B | B | B | B | A | D |
| Caustics | C | C | B | B | B | D/E | A | A |
| Esters | A | E | C | C | C | D/E | A | D |
| Hydrocarbons (Paraffinic) | E | A | C | C | D | B | E | A |
| Hydrocarbons (Aromatic) | E | C | D | D | C | C | D | A |
| Hydrocarbons (Chlorinated) | E | E | E | E | C | E | E | A |
| Ketones | A | D | C | C | C | E | A | E |
| Water | A | B | C | C | B | B | A | B |
| Abrasive Polishing | * | | * | | | * | | |
| Agricultral | * | | | | | * | | |
| Conveyors | * | * | * | * | * | * | * | * |
| Food industry | * | * | * | * | * | * | * | * |
| Laminating | | * | * | * | * | * | * | * |
| Mining/quarry | * | | * | | | | | |
| Paper & Packaging | * | * | * | * | * | * | | |
| Plastics | | * | | * | * | * | | |
| Pharmaceuticals | | * | | | | | | |
| Steel mills rollers | * | * | * | * | | * | * | |
| Textile Rollers | * | * | * | * | | * | * | |
| Wood Industry | * | * | * | * | * | * | * | |

Average results shown - specialized polymers available under each heading