# Schulman Polypropylene

| | POLYAXIS | | | | SUPERLINEAR | SCHULAFLEX | FLAME RETARDANT | POLYPROPYLENE | SCHULINK |
|---|---|---|---|---|---|---|---|---|---|
| | Polyaxis CP 812 Black/ Colors | Polyaxis CP 813-31 Black | Polyaxis LP 624 Black/ Colors | Polyaxis/ EVA LPA 815-01 Natural/Black Colors | Superlinear XL 0360 Natural/ Black Colors | Schulaflex SF 230 Natural/ Black Colors | Flame Retardant RLLP 621 Natural/Black Colors | Polypropylene PD 8020 Natural/Black Colors | Schulink XL 350 Natural/ Black Colors |
| Characteristics | Combination of Good Flow and Stiffness UV-8 Type Protection | General Purpose Black UV-8 Type Protection | Good Flow and Stiffness UV-8 Type Protection | Soft, Pliable, Good at Low Temperature UV Stabilization Available | High Impact, Excellent Stiffness UV-8 Type Protection | Soft, Pliable, Good Flow UV Stabilization Available | Good Flow and Impact Properties UV-4 Type Protection | Good Stiffness and ESCR No UV Stabilization | High Impact, Good Stiffness and ESCR UV-6 Type Protection |
| Typical Applications | Small Boxes Appearance Applications | Dock Floats RV Tanks | Ice Bin Liners Canoes Appearance Applications | Soft Toys Specialties | Watercraft Large Containers Refuse Carts | Bellows Dock Bumpers | Electronic Housings Institutional Furniture | Small Chemical Tanks Specialty Applications | Chemical Containment Gas Tanks |
| Resin Properties Melt Index-g/ 10 min | 6.0-7.0 | 5.5-7.0 | 6.0 | 6.0-8.0 | 3.3 | 30.0 | 6.5 | 20 | n/a |
| Density-g/cm3 | 0.935 | 0.935 | 0.942 | 0.935 | 0.946 | 0.882 | 1.01 | 0.90 | 0.942 |
| Typical Physical Properties Tensile Strength @ Yield, 2" / minute PSI | 2250 | 2300 | 2600 | 2100 | 3650 | 450 | 2200 | 4000 | 2800 |
| Ultimate Elongation % | 500 | 400 | 400 | 700 | >400 | 800 | 50 | 15 | 350 |
| ESCR, hours F50 (100% Igepal) Cond. A | >1000 | >1000 | >500 | n/a | n/a | >1000 | n/a | >1000 | >1000 |
| Flexural Modulus (PSI) at 1% Secant | 78,000 | 78,000 | 105,000 | 8,600 | 120,000 | 3,100 | 85,000 | 177,000 | 100,000 |
| Heat Distortion @ 66 PSI, C | 49 | 49 | 52 | n/a | 67 | n/a | 48 | 85 | 60 |
| ARM Impact (-40 C) 1/8" Specimen | 48 | 40 | 42 | - | 56 | - | 15 | 4.5 | 61 |