

## A. Schulman POLYFORT™ FPP 1842 Homopolymer Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

### Material Notes:

Description Polyfort® FPP 1842 is a high stiffness, high heat resistant filled homopolymer polypropylene developed especially for instrument panel clusters. It is opaque to high intensity light. Information provided by A. Schulman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_A-Schulman-POLYFORT-FPP-1842-Homopolymer-Polypropylene.php](http://www.lookpolymers.com/polymer_A-Schulman-POLYFORT-FPP-1842-Homopolymer-Polypropylene.php)

| Physical Properties | Metric                             | English                            | Comments   |
|---------------------|------------------------------------|------------------------------------|------------|
| Specific Gravity    | 1.26 g/cc                          | 1.26 g/cc                          | ASTM D792  |
| Melt Flow           | 12 g/10 min<br>@Temperature 230 °C | 12 g/10 min<br>@Temperature 446 °F | ASTM D1238 |

| Mechanical Properties   | Metric                              | English                                 | Comments            |
|-------------------------|-------------------------------------|---|---------------------|
| Hardness, Rockwell R    | 97                                  | 97                                      | ASTM D785           |
| Tensile Strength, Yield | 31.0 MPa                            | 4500 psi                                | 2 in/min; ASTM D638 |
| Elongation at Break     | 15 %                                | 15 %                                    | ASTM D638           |
| Flexural Strength       | 39.3 MPa                            | 5700 psi                                | ASTM D790           |
| Flexural Modulus        | 4.27 GPa                            | 620 ksi                                 | ASTM D790           |
| Izod Impact, Notched    | 0.320 J/cm                          | 0.600 ft-lb/in                          | ASTM D256           |
|                         | 0.214 J/cm<br>@Temperature -30.0 °C | 0.400 ft-lb/in<br>@Temperature -22.0 °F | ASTM D256           |

| Thermal Properties                          | Metric | English | Comments  |
|---|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 145 °C | 293 °F  | ASTM D648 |

## Contact Songhan Plastic Technology Co.,Ltd.

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