

# FLUOROLON PEEK 3000

PEEK, Poly-ether-ether-ketone is a high performance, high temperature semi crystalline engineering thermoplastic. It is an excellent material for a wide variety of applications where chemical, thermal and mechanical properties are critical. Various grades for are available for structural, electrical and bearing service. The material having a melt viscosity in the range of 380-480 Pa.s at 400C. PEEK 3000 is produced to the highest industrial standard.

| Property                        | Specified                 | Units             | Method      |
|---------------------------------|---------------------------|-------------------|-------------|
| Tensile Strength                | 14,200                    | psi               | ASTM D638   |
| Elongation                      | 5                         | %                 | ASTM D638   |
| Tensile Modulus                 | 507,000                   | psi               | ASTM D638   |
| Compressive Strength            | 17,000                    | psi               | ASTM D695   |
| Flexural Strength               | 21,600                    | psi               | ASMT D790   |
| Flexural Modulus                | 525,000                   | psi               | ASTM D790   |
| Notched Impact                  | 1.6                       | ft/lb/in          | ASTM D256   |
| Hardness—Rockwell               | 99                        | M-Scale           | ASTM D785   |
| Coefficient of Friction         | .34                       | -                 | dry v steel |
| Service Temperature             | 500                       | (F)               | -           |
| Thermal Expansion               | 2.6 x 10 <sup>-5</sup> th | um/m/c            | ASTM D696   |
| <b>Rheological Properties*</b>  |                           |                   |             |
| Specific Gravity*               | 1.32                      | g/cm <sup>3</sup> | ASTM D792   |
| Melt Flow Rate (385 C / 5kg*)   | 22                        | g/10min           | ASTM D1238  |
| Melt Viscosity (400 C /1000 s   | 440                       | Pa's              |             |
| Flammability                    | self-ext                  | -                 | ASTM D639   |
| Resistance to oils, fuels, sol- | excellent                 | -                 | -           |

This information corresponds to our current information on the subject. It is offered solely to provide suggestions for your own experimentation. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. Since we cannot anticipate all variations in actual end-use conditions, Advanced EMC Technologies makes no warranties and assumes no liability in connection with any use of this information.

**ADVANCED EMC TECHNOLOGIES**

5903 S. 107th East Avenue,  
Suite 108  
Tulsa, Oklahoma 74146

Phone (800) 644-9770  
sales@advanced-emc.com