

Jade Engineered Plastics 15 New Industrial Way Warren, RI 02885 US & Canada: (800) 557-9155 Outside US & Canada: (401) 253-4440 www.jadeplastics.com

## **Torlon**<sup>®</sup> Bearing Grade PAI Extruded

## **OVERVIEW**

Torlon<sup>®</sup> 4301 extruded PAI is primarily used for wear and friction parts. It offers a very low expansion rate, low coefficient of friction and exhibits little or no slip-stick in use. Torlon<sup>®</sup> 4301's flexural modulus of 1,000,000 psi is higher than most other advanced engineering plastics.

## **TECHNICAL DATA**

## **APPLICATIONS & USES**

This grade excels in severe service wear applications such as non-lubricated bearings, seals, bearing cages and reciprocating compressor parts.

- Bearing Cages
- High Temp Bushings and Bearings
- Reciprocating Compressor Components
- Seals

| PROPERTY                                | VALUE                             |
|---|-----------------------------------|
| Tensile Strength                        | 12,000 psi                        |
| Tensile Modulus                         | 800,000 psi                       |
| Tensile Elongation at Break             | 3%                                |
| Flexural Strength                       | 23,000 psi                        |
| Flexural Modulas                        | 800,000 psi                       |
| Compressive Strength                    | 22,000 psi                        |
| Compressive Modulus                     | 950,000 psi                       |
| Hardness                                | Rockwell M106                     |
| IZOD Impact-Notched                     | 0.8 ft-lb/in                      |
| Dynamic Coefficient of Friction         | 0.2                               |
| Wear K Factor                           | 10 in <sup>3</sup> -min/ft-lbs-hr |
| Limiting PV                             | 40,000 psi-fpm                    |
| Coefficient of Linear Thermal Expansion | 1.4 x 10-5 in./in./°F             |

The data provided gives the typical properties of the material. These are "typical" properties only, and should not be used for specification purposes. This information is based on our experience to date and we believe it to be reliable. It is intended to be used only as a guide at your discretion and risk. Jade cannot guarantee favorable results and assumes no liability in connection with the use of this product. None of this information is to be taken as a license to operate under, or recommendation to infringe, any patents.



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| PROPERTY                      | VALUE                             |
|-------------------------------|-----------------------------------|
| Heat Deflection Temp          | 534° F                            |
| Melting Point Temp            | 527° F                            |
| Max Continuous Operation Temp | 500° F                            |
| Minimum Operating Temp        | -328° F                           |
| Thermal Conductivity          | 3.7 BTU-in/ft <sup>2</sup> -hr-°F |
| Flammability Rating           | V-0                               |
| UV Resistant                  | Yes                               |

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