

Datasheet ASN788



The ASN788 material is recommended for use in high load bushings and bearing applications. The material offers market leading frictional properties for composite materials. ASN788 is a high load composite bearing material made from specially manufactured synthetic fabric reinforcement using a composite construction process impregnated with thermosetting resins. Solid lubricant fillers are applied, making them suitable for dry-running applications. The product has a dark grey colour.

Application

Material

Synthetic fiber with polyester resin with friction modifiers.

Availability

| | Value | Unit |
|-----------------------|------------|------|
| Tube inside diameter | on request | |
| Tube outside diameter | on request | |
| Length standard | on request | |
| Sheet thickness | on request | |
| Sheet size | on request | |
| Inside diameter | on request | |
| Outside diameter | on request | |
| Flange diameter | on request | |
| Flange height | on request | |
| Total length | on request | |



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ASN788 - Specifications

Physical properties

| | Test standard | Value | Unit |
|-------------------------------|---------------|-------|-------------------|
| Density | | 1,30 | g/cm ³ |
| Water absorption % volumetric | ASTM D570 | 0,5 | % |

Mechanical properties

| | Test standard | Value | Unit |
|---------------------------------------|---------------|------------|------|
| Compressive strength static | | 250 | MPa |
| Module of elasticity - Youngs modulus | | on request | |
| Tensile strength | | 60 | MPa |
| Shear strength | | 100 | MPa |
| Impact strength | | on request | |
| Hardness | | on request | |
| Dynamic load capacity | | 60 | MPa |
| Flexural strength | | 69 | MPa |

Thermal properties

| | Test standard | Value | Unit |
|--|---------------|------------|------|
| Thermal expansion Parallel to laminate | | on request | |
| Thermal expansion Normal to laminate | | on request | |
| Min. working temperature | | on request | |
| Max. working temperature | | on request | |
| Intermittent working temperature | | on request | |
| Heat distortion temperature | | 140 | °C |

Friction properties

| | Test standard | Value | Unit |
|---------------------------------|---------------|------------|------|
| Coefficient of friction dynamic | | 0,08 | [-] |
| Max. sliding speed | | on request | |
| Max. Pv-load dry | | on request | |
| Max. Pv-load oil lubricated | | on request | |
| Max. Pv-load on regular greased | | on request | |

Electrical properties

| | Test standard | Value | Unit |
|--|---------------|-------|------|
|--|---------------|-------|------|