



Technical Fact Sheet

CTF 395 Acrylic Short Cut Staple Fiber

General Description

CTF 395 short cut acrylic staple has been specifically designed to increase the strength and toughness of liquid resin based brake and clutch products such as roll linings, extruded clutch facings and railroad blocks. In these applications the key issues are strength and toughness of both the in process and cured parts, with particular emphasis placed on the toughness or crack resistance. This fiber can be provided in a range of lengths from one to ten millimeters.

Physical Properties of NAO Wet Resin Friction Material Containing 6mm CTF 395 at Different Weight Percents

| CTF 395 Weight % | Flexural Strength (KSI) | Properties Modulus (MSI) | Punch Shear Strength (KSI) | Fracture Toughness G_{Ic} (in-lbs/in ²) |
|------------------|-------------------------|--------------------------|----------------------------|---|
| 0 | 2.49 +/- .24 | .21 +/- .03 | 2.6 (Rupture) | 1.68 |
| 2 | 2.81 +/- .24 | .21 +/- .01 | 3.0 (Yield) | 2.61 |
| 4 | 3.16 +/- .24 | .24 +/- .01 | 3.2 (Yield) | 4.15 |

Relative Strength and Toughness Improvements in Model Roll Linings Containing 10% CTF 395 at Different Fiber Lengths

| | No Fiber | 3mm Fiber | 6 mm Fiber | 9 mm Fiber |
|-------------------|----------|-----------|------------|------------|
| Flexural Strength | 1.0 | 2.2 | 3.5 | 3.0 |
| Crack Resistance | 1.0 | 3.2 | 4.2 | 2.8 |

IMPORTANT NOTICE

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