

# Calprene® 401

Styrene Butadiene Styrene Block Copolymer

Dynasol Elastomers

Message:

Calprene 401 is an 80/20 butadiene/styrene thermoplastic copolymer, polymerized in solution and having a radial structure.

This product is available in:

C 401 porous crumb

C 401M powder form dusted with amorphous silica

APPLICATIONS:

Bitumen modification

Footwear

Mechanical rubber goods

Plastic modification

| General Information |                               |
|---------------------|-------------------------------|
| Additive            | Calcium Stearate (5000 ppm) 2 |
| Features            | Branched Polymer Structure    |
|                     | Copolymer                     |
|                     | Dispersible                   |
|                     | Porous                        |
| Uses                | Asphalt Modification          |
|                     | Footwear                      |
|                     | Machine/Mechanical Parts      |
|                     | Plastics Modification         |
| Forms               | Crumb                         |
|                     | Powder                        |

| Physical                                       | Nominal Value | Unit   | Test Method |
|--|---------------|--------|-------------|
| Color - Hunterlab                              | 2.0           |        | ASTM D1925  |
| Solution Viscosity                             |               |        |             |
| 25% in toluene <sup>1</sup>                    | 9.7           | Pa · s |             |
| 5.23% in toluene <sup>2</sup>                  | 20            | cSt    |             |
| Styrene Content                                | 20            | %      | ASTM D5775  |
| Volatile Matter                                | 0.50          | %      | ASTM D5668  |
| Insolubles - in toluene, 325 mesh <sup>3</sup> | < 0.10        | %      |             |

| Hardness                     | Nominal Value | Unit | Test Method |
|------------------------------|---------------|------|-------------|
| Durometer Hardness (Shore A) | 60            |      | ASTM D2240  |

| NOTE |             |
|------|-------------|
| 1.   | MA 04-3-064 |
| 2.   | MA 04-3-003 |
| 3.   | MA 04-3-018 |

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