

## DuPont Performance Polymers Hypalon® 40S Chlorosulfonated Polyethylene Rubber, Peroxide Cured Carbon Black Filled Compound

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Rubber or Thermoset Elastomer (TSE) , Chlorosulfonated Polyethylene Rubber

### Material Notes:

Carbon black compound with 100 parts Hypalon; 40 parts carbon black; 20 parts magnesia; and 5.8 parts Varox® DBPH-50. Physical property data below (except mooney viscosity) are for vulcanizate. MatWeb has other entries for different compounds of this Hypalon grade. General Hypalon® Information: Vulcanizates of this chlorosulfonated polyethylene synthetic rubber are highly resistant to ozone, oxygen, weather, heat, oil, and chemicals. Hypalon resists discoloration on exposure to light and is widely used in light-colored vulcanizates. It can be compounded to give excellent mechanical properties. Several grades are available, all of which may be processed and used in the usual manner for solid elastomeric vulcanizates. Various grades of Hypalon have been used in single-ply roofing systems; auto power steering and oil cooler hoses; chemical-resistant liners; cable sheathing; and other coatings. Information provided by DuPont Dow Elastomers. This former DuPont Dow Elastomers product line is now produced by DuPont Performance Elastomers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Hypalon-40S-Chlorosulfonated-Polyethylene-Rubber-Peroxide-Cured-Carbon-Black-Filled-Compound.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hypalon-40S-Chlorosulfonated-Polyethylene-Rubber-Peroxide-Cured-Carbon-Black-Filled-Compound.php)

| Physical Properties | Metric                    | English                   | Comments                               |
|---------------------|---------------------------|---------------------------|--|
| Mooney Viscosity    | 42<br>@Temperature 135 °C | 42<br>@Temperature 275 °F | ML 1+4. Stock property.; ASTM D1646-81 |

| Mechanical Properties      | Metric                      | English                     | Comments                                |
|----------------------------|-----------------------------|-----------------------------|---|
| Hardness, Shore A          | 76                          | 76                          | ASTM D2240-81                           |
| Tensile Strength, Ultimate | 19.2 MPa                    | 2780 psi                    | ASTM D412-80                            |
| Elongation at Break        | 270 %                       | 270 %                       | ASTM D412-80                            |
| 100% Modulus               | 0.0148 GPa                  | 2.15 ksi                    | ASTM D412-80                            |
| Compression Set            | 28 %<br>@Temperature 100 °C | 28 %<br>@Temperature 212 °F | 22 hr at 100°C. Method B. ASTM D395-69. |

## Contact Songhan Plastic Technology Co.,Ltd.

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