

## DuPont Performance Polymers Hypalon® 45 Chlorosulfonated Polyethylene Rubber, Mineral Filled Compound (discon)

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

### Material Notes:

Mineral filled compound with 100 parts Hypalon; 80 parts hard clay; 4 parts magnesia; 30 parts aromatic process oil; 3 parts pentaerythritol; and 2 parts Tetrone® A rubber accelerator (from DuPont Dow Elastomers). Physical property data below (except mooney viscosity) are for vulcanizate cured 35 min at 153°C. 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-45-Chlorosulfonated-Polyethylene-Rubber-Mineral-Filled-Compound-nbspdiscon.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hypalon-45-Chlorosulfonated-Polyethylene-Rubber-Mineral-Filled-Compound-nbspdiscon.php)

Physical Properties	Metric	English	Comments
Mooney Viscosity	26 @Temperature 100 °C	26 @Temperature 212 °F	ML 1+4. Stock property.; ASTM D1646-81

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	81	81	ASTM D2240-81
Tensile Strength, Ultimate	18.8 MPa	2730 psi	ASTM D412-80
Elongation at Break	540 %	540 %	ASTM D412-80
100% Modulus	0.00500 GPa	0.725 ksi	ASTM D412-80
Resilience	60	60	% Yertzley; ASTM D945-77
Tear Strength Test	285	285	lb-in. Graves Die C; ASTM D642-54
Abrasion	70	70	NBS Abrasion Index; ASTM D1630-74.
Compression Set	46 % @Temperature 70.0 °C	46 % @Temperature 158 °F	22 hr at 70°C. Method B. ASTM D395-69

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-32.0 °C	-25.6 °F	Brittleness Temperature

Brittleness Temperature Thermal Properties	-32.0 °C Metric	-25.6 °F English	ASTM D746-79 Comments
Clash Berg Stiffness Temperature	-17.0 °C	1.40 °F	T-10000 Torsional stiffness ASTM D1043-72(1981)

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