

## DuPont Performance Polymers Hypalon® 45 Chlorosulfonated Polyethylene Rubber, Carbon Black Filled Compound (d)

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

### Material Notes:

Carbon black compound with 100 parts Hypalon; 27.8 parts sublimed litharge dispersion; 55 parts carbon black; 55 parts aromatic process oil; 0.5 parts MTBS; and 2 parts Tetrone® A rubber accelerator (from DuPont Dow Elastomers). Physical property data below (except mooney viscosity) are for vulcanizate cured 30 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-Carbon-Black-Filled-Compound-nbspd.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hypalon-45-Chlorosulfonated-Polyethylene-Rubber-Carbon-Black-Filled-Compound-nbspd.php)

Physical Properties	Metric	English	Comments
Mooney Viscosity	32 @Temperature 100 °C	32 @Temperature 212 °F	ML 1+4. Stock property.; ASTM D1646-81

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240-81
Tensile Strength, Ultimate	20.6 MPa	2990 psi	ASTM D412-80
Elongation at Break	275 %	275 %	ASTM D412-80
100% Modulus	0.00600 GPa	0.870 ksi	ASTM D412-80
Resilience	60	60	% Yerzley; ASTM D945-77
Graves Tear Strength	175 kN/m	999 pli	Die C; ASTM D642-54
Abrasion	310	310	NBS Abrasion Index; ASTM D1630-74.
Compression Set	15 % @Temperature 70.0 °C	15 % @Temperature 158 °F	22 hr at 70°C original. Method B. ASTM D395-69.

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-65.0 °C	-85.0 °F	Brittleness Temperature

Brittleness Temperature Thermal Properties	-65.0 °C Metric	-85.0 °F English	Wide variability between samples is observed. ASTM D746 Comments
Clash Berg Stiffness Temperature	-18.0 °C	-0.400 °F	T-10000 Torsional stiffness ASTM D1043-72(1981)

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