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**ELASTOMERS**  
**-NATURAL RUBBER-**

**DP-Poly**  
**(Deproteinized Natural Rubber)**

**DESCRIPTION:**

DP-Poly is a controlled viscosity, highly purified deproteinized natural rubber from which most of the proteins and ash have been removed. The purification of natural rubber produces a polymer with special attributes, i.e. hydrocarbon content of 96% compared to 93% of normal natural rubber, that have been found to be advantageous in many industries and applications. DP-Poly is available in a controlled viscosity (CV) grade and a standard (S) grade which does not contain the controlled viscosity feature.

**TYPICAL PROPERTIES:**

<i>Grades:</i>	<i>DP-Poly (CV)</i>	<i>DP-Poly (S)</i>
Color Limit-Lovibond Scale	4.00	2.00
Dirt Content, on 44u aperture, % wt.	0.008	0.008
Ash Content, % wt.	0.10	0.10
Nitrogen Content, % wt.	0.09	0.09
Volatile matter, % wt.	0.19	0.20
Mooney Viscosity, ML(1+4), 100°C	60 - 70	75 - 85*

\* at time of production, not a controlled viscosity product

**APPLICATIONS:**

DP-Poly purified natural rubbers have higher hydrocarbon content and lower dirt, ash, nitrogen and volatile matter compared to traditional natural rubbers (NR), which leads to its many interesting and beneficial characteristics. DP-Poly CV and S grades are used in high quality natural rubber articles. Listed below are some of the benefits of utilizing DP-Poly NR versus normal NR and their corresponding applications:

<i>Characteristic</i>	<i>Application</i>
lower rate of creep/stress relaxation	motor and building mounts, seals, bearings, shock absorbers, etc.
lower water absorption	electrical insulation, marine parts, stator pumps, tank linings, etc.
more transparent/easier to color	molding and extruding clean tubing, hoses, toys, etc.
lower protein, antigen content	pharmaceutical adhesives, teats, diapers, stoppers, syringes, etc.

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