

STANDARD PLASTICS GROUP

■ POLY-VINYL-CHLORIDE (PVC)

is the most commonly used plastic for mechanical cable coatings, especially where cost is a factor. Vinyl is flexible, has good weathering resistance and has excellent resistance to the ultraviolet rays of the sun which degrades many plastics. The operating temperature range of vinyl is between -30°F (-35°C) and +180°F (+80°C). Vinyl is supplied in a wide range of hardnesses or durometers. It is available from very hard and stiff to soft and spongy. AS A STANDARD WE HAVE SELECTED 90 DUROMETER (shore "A"). This durometer is suitable for the majority of applications, however, if your particular application requires low or high temperature environment, unusual abrasion resistance or special atmosphere or environmental problems, we will "tailor" a cable and plastic coating to your measurements.

Vinyl is easily colored in a wide range of the spectrum from bright vivid colors to soft pastels, from metal flake to international orange. Again, we will "tailor" a color to fit your needs.

We can supply a vinyl coating to meet MIL-I-631, Type F, Form U, Grade A, Class II, Category 1.

■ POLYETHYLENE (PE)

is primarily an electrical insulation plastic. Because of its wide acceptance and large production it is one of the least expensive plastics. It is quite flexible in thin wall thickness but stiff in heavy wall thickness. It does not have good abrasion resistance; as a result it is rarely used as the outside jacket of a mechanical cable. We use it primarily as an insulation material in electromechanical cables. The operating temperature range for polyethylene is between -40°F (-40°C) and +200°F (+95°C), it has good resistance to chemicals and good weathering properties. Polyethylene's natural color is a milky-white translucent. Polyethylene meets MIL-I-631, Type A, Form U, Grade A, Class II.

■ POLYPROPYLENE (PP)

has found several basic applications in the mechanical cable industry. It has good abrasion resistance, good chemical resistance, and is easy to process. It is light in weight and reasonably priced. Polypropylene has a narrow temperature range, however, and is not recommended for cold applications below 0°F (-18°C) nor applications above 200°F (95°C). Its weatherability is only fair because it is degraded by the ultraviolet rays of the sun.

LOLON® ENGINEERING PLASTICS GROUP

■ LOLON® "B"

One of the first of Loos & Co.'s special formulations of plastic coating for mechanical cables. LOLON® "B" offers superior abrasion resistance and fatigue resistance. It possesses good chemical resistance and operates satisfactorily in a temperature range between -40°F (-40°C) and +200°F (+95°C). LOLON® "B" is light tan in color, slightly transparent.

■ LOLON® "F"

A very broad range of applications are served by LOLON® "F". Flexibility is exceptional, chemical resistance is good. Its superior quality is to operate in an extremely wide temperature range, from -65°F (-54°C) to +230°F (+110°C). A desired plastic for cable coatings where the cable operates over pulleys, especially in severe cold. Natural color is a transparent or clear. LOLON® "F" will meet Military Specification MIL-W-83420.

■ LOLON® "I"

Similar to LOLON® "F" except it has slightly better heat stability. Will operate in temperatures up to +250°F (+120°C). Severe cold resistance is almost as good as LOLON® "F". Will operate at -65°F (-54°C). Flexibility is not quite as good as LOLON® "F". Natural color is transparent or clear. Chemical resistance is good.

■ LOLON® "M"

Another super-plastic. In addition to its remarkable flexibility, LOLON® "M" has excellent abrasion resistance, is tough to cut, will operate in a temperature range between -60°F (-54°C) and +300°F (+150°C). It is resistant to many chemicals and a broad range of oils and solvents. It is mildew and fungus resistant, has good electrical properties for low voltage applications, is available in colors. Its natural color is black. From a cost standpoint it is slightly more expensive but its long life in applications running over pulleys offsets this minor disadvantage.

AS9100:D / ISO 9001:2015 CERTIFIED

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