

PLUSS[®]



Plus Polymers is an offshoot of Manas, established to develop and market new technologies and products developed inhouse. Plus Polymers was incorporated in 1993 to commercialise the technology for grafted modified polymers and alloys and blends. Backed by competent technical staff, laboratory facilities, a good library and technical database with a retrievable wealth of information marketed the OPTIM[®] brand of grafted polymers for the first time in India in 1996.

OPTIM[®] coupling agents and compatibilisers allow plastics manufacturers of world class quality products to *OPTIMise* their compound properties. The ADNYL[®] range of nylon alloys provide the user with extra tough nylon for increased strength.

Profiles and other rigid and flexible containers for thermal energy storage have also been introduced in India for the first time by Plus Polymers.

TECHNICAL DATA SHEET

Product : **OPTIM® P-635**
Series : 600
Description : EPDM Rubber grafted with anhydride and acid functionality.
Appearance : White to off white free flowing granules / pellets.

Properties :

Density (gm/ml) 0.88
MFI @ 190°C, 21.6 Kg 5.0
MAH content (%) min Low
Low : MAH Content ranges from 0.1- 0.4%

Production Description

OPTIM® P-635 is EPDM grafted with Maleic Anhydride and is meant for toughening of Polyamides such as Nylon - 6 and Nylon - 6,6. It gives excellent mechanical properties at low temperatures (sub zero conditions).

Applications

This product is designed to produce a super tough nylon alloy based on Nylon 6 or Nylon 6,6. Mineral and glass filled nylons with enhanced impact strength may also be produced using this material. Best results are obtained when compounding is done in high shear machines such as twin screw extruders.

Recommended Use Level

5-20% based on the weight of Nylon. The actual addition level will depend on the impact strength desired.

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