

# EDMANEX 6940

## Black Polyethylene Masterbatch (General Purpose)

Property	Typical value	Units	Test Method
Carbon Black Content	40 $\pm$ 2	%	ASTM D1603
Density	1.15	g/Cm <sup>3</sup>	ASTM D1505
Melt Flow Index*			ASTM D1238
- At 190 °C , 5 kg	0.1 - 3.5	g / 10 min	
- At 230 °C , 5 kg	0.3 - 9.5	g / 10 min	
Oxidative Induction Time 200 °C	> 15	minutes	ASTM D3895

### Application :

**EDMANEX 6940** is a high flow carbon black polyethylene based masterbatch general purpose with high demands for black color ( excellent homogeneity ). It contains 40% carbon black. Since the initial particle size of carbon black has a dominant role on the UV resistance, a micronised carbon black has specially selected for the concentrate.

A suitable additive which acts as a carrier and dispersing agent is added to improve the dispersion of carbon black by breaking down the agglomerates and aggregates. A high technology modular twin screw extruder consisting of kneading elements to break down the agglomerates to aggregates and aggregates to smaller parts as well as effective elements to homogeneously distribute the black has used to produce the masterbatch.

The uniformity of temperature and stress exerted on the material in the extruder which has a particular effect on the quality of the masterbatch, is excellent in the used processing machines. A stabilizer package is added to ensure thermal stability during processing. According to these features a well dispersed, distributed and stabilized homogeneous black concentrate is obtained without deteriorating effect on the mechanical properties of the final product .

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