

## NIZHNEKAMSKNEFTEKHIM PE 6948C (486H3) High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

**Material Notes:**

Product obtained by gas phase polymerization of ethylene in presence of complex metalorganic catalysts. Information provided by manufacturer

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NIZHNEKAMSKNEFTEKHIM-PE-6948C-486H3-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_NIZHNEKAMSKNEFTEKHIM-PE-6948C-486H3-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.946 - 0.950 g/cc	0.0342 - 0.0343 lb/in <sup>3</sup>	Base Resin; ASTM D1505
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	ASTM D1693
Melt Flow	0.25 - 0.40 g/10 min @Load 5.00 kg, Temperature 190 °C	0.25 - 0.40 g/10 min @Load 11.0 lb, Temperature 374 °F	ASTM D1283/L
	4.5 - 7.2 g/10 min @Load 21.6 kg, Temperature 190 °C	4.5 - 7.2 g/10 min @Load 47.6 lb, Temperature 374 °F	Flow@21.6kg/Flow@5kg ratio > 18; ASTM D1283

Mechanical Properties	Metric	English	Comments
Flexural Modulus	>= 1.00 GPa	>= 145 ksi	ASTM D790
Izod Impact, Notched	>= 4.00 J/cm @Temperature 23.0 °C	>= 7.49 ft-lb/in @Temperature 73.4 °F	ASTM D256

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