

DIAMOND ADDITIVE

Plastic Additives Supplier

PRODUCT DATA SHEET

Super high Molecular weight PE DA-UH

Introduction:

Super high molecular weight PE (UHMW-PE) is a kind of high-density PE made from olefinic hydrocarbon monomer, such as ethane ethylene, which is through slurry polymerization process. Its viscosity-average molecular weight is more than 1.5 million. The appearance of the product is the white powder.

Characteristics :

Super high molecular weight PE is a kind of Thermoplastic engineering plastics, which has excellent comprehensive function. Its advantages are much better than the other engineering plastics, such as impact resilience, wear-resistance, corrosion stability, low temperature and stress Crack resistance, anti-anchor strength as well as its other function, for example, excellent electric insulating, safe and hygiene, and self- lubricating etc. It usually adopts the method of calendar running and sinter roasting to process, due to its bad melt flow ability and low critical shear rate.

Index:

No	Index	3PUH
1	viscosity-average molecular weight $\times 10^4$	300-400
2	density, g/cm ³	0.93-0.94
3	Apparent density, g/cm ³ \geq	0.30
4	Volatile substance (m/m) % \leq	0.15
5	particle size,(pass 40 mesh) \geq	98%
6	tensile strength Mpa \geq	
7	elongation at break % \geq	300
8	simple beam impact strength, kJ/m ² \geq	80
9	Izod impact strength kJ/m ²	No break
10	heat deflection temperature, °C \geq	60

Main application

It's mainly applied in the production of plate, pipe and profiled materials.

Its main feature is: good self-lubrication. Non-scale formation, impact and wear resistance, long work life.

PACKING: The standard packing is special 25kg drums.

It should be stored in ventilating and dry place according to the non-dangerous goods, avoiding sunshine and humidity.