

# NINGBO SENDER MEDICAL TECHNOLOGY CO., LTD.

ADD: No.1 ZHIJIANG ROAD, LANJIANG STREET, YUYAO, ZHEJIANG PROVINCE CHINA  
TEL: 0086-574-6259 9910 FAX: 0086-574-6259 8966

## Polypropylene(pp)

### 1. IDENTIFICATION OF THE PREPARATION&COMPANY

- Trade name: PP-MS16(GM1600E)
- Manufacture: SINOPEC Shanghai Petrochemical Limited Share Ltd

### 2. PRODUCT QUALITY SPECIFICATIONS

The product is a polypropylene copolymer, non-toxic and tasteless. It does not distort and damage soaking in the water of 100°C. The common acid and alkali solvent do not have an effect to it.

Grade	GM1600E	
Item	Specification	Result
Cleanness(One per kilogram)	≤0	0
Melt flow rate(g/10min)	16±2.0	15
Outtrigger impact strength(23°C)kJ/m <sup>2</sup>	>2.8	5.4
Bending modulus(MPa)	>800	1.05E+03
Yellowness index	≤0	-2.7
Light transmittance	≥75.0	93.1
Tensile yield strength(MPa)	>20.0	28.1

### 3. HANDLING AND STORAGE

Provide adequate ventilation, local exhaust ventilation may be necessary.

Dust from the product gives a potential risk for dust explosion. All equipment shall be grounded.

## Acrylonitrile-styrene copolymer

### 1. IDENTIFICATION OF THE PREPARATION&COMPANY

- Trade name: 82TR/SAN
- Manufacture: LG Chem Ltd

### 2. PRODUCT QUALITY SPECIFICATIONS

The product is a acrylonitrile-styrene copolymer. It is thermoplastic. It is not easy to change color, with a high gloss, high transparency, high impact, good heat resistance and mechanical properties. It has excellent heat resistance and solvent resistance, high rigidity, with high chemical stability, water resistance, oil resistance, acid and alkali resistance, alcohol resistance.

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Grade	82TR/SAN	
Testing Environment	Temperature: $(21.5 \pm 2.5) ^\circ\text{C}$ , Humidity: $(28 \pm 12)\% \text{R.H}$	
Item	Specification	Result
Melt flow rate(g/10min)	1.4~3.3	2.8
Outtrigger impact strength(23 $^\circ\text{C}$ )kJ/m <sup>2</sup>	2.1~2.5	2.2
Tensile yield strength(MPa)	72~78	74.8

## POLYETHYLENE

LDPE for lower piston,dip tude.

HDPE for up piston,and all HDPE bottles.

### 1. IDENTIFICATION OF THE PREPARATION&COMPANY

#### 1) LDPE:

- Trade name: Low Density Polyethylene(Q281)
- Manufacture:SINOPEC Shanghai Petrochemical Limited Share Ltd

#### 2) HDPE:

- Trade name: High Density Polyethylene
- Manufacture: Formosa Plastics Corporation

### 2. PRODUCT QUALITY SPECIFICATIONS

The polyethylene is the waxy translucent material. It has good flexibility ,non-toxic and superior dielectric properties.

This product is inflammable and also continues after the fire to burn.The water osmosis is lower,but the higher the organic steam osmosis is. Under the normal temperature,it does not dissolve in any known solvent and is dissolved into toluene,anyl acetate a little.

The polyethylene has the outstanding chemical stability. It bears the hydrochloric acid,the phosphoric acid,the formic acid,the amines,and the sodium hydroxid, the potassium hydroxide and so on under the room temperature,the nitric acid and the sulfuric acid has the strong destructive effect to the polyethylene. It is easy to have the degeneration under the ultraviolet ray function. The carbon black has the outstanding light shielding function to the polyethylene.

### 3. PRODUCT QUALITY SPECIFICATIONS

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LDPE		
Grade	Q281	
Item	Specification	Result
Cleanness(One per kilogram)	≤10	0
Melt flow rate(g/10min)	2.4~3.0	2.9
Density	0.9225~0.9255	0.9243

HDPE		
Grade	8050	
Item	Specification	Result
Melt Index	4.5~8.5	5.6
Density	0.9570~0.9620	0.9572
Color b	≤2.0	-2.4