

# POLYETHYLENE HDPE HSGC 7260



Product trademark:

Manufacturer: PETROCHINA GUANGDONG PETROCHEMICAL COMPANY

Overview: High-density polyethylene produced using Hostalen ACP low-pressure slurry process.

Execution standard: Q/SY GDS 0211-2024

Technical specifications:

| No.                                                                                                   | Analysis Item                                             | Typical Value | Test Method |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|-------------|
| 1                                                                                                     | Melt Flow Rate (MFR, 2.16kg), g/10min                     | 7.5           | GB/T 3682.1 |
| 2                                                                                                     | Density, g/cm <sup>3</sup>                                | 0.960         | GB/T 1033.2 |
| 3                                                                                                     | Tensile Yield Stress, MPa                                 | 25            | GB/T 1040.2 |
| 4                                                                                                     | Tensile Breaking Stress, MPa                              | 11            | GB/T 1040.2 |
| 5                                                                                                     | Tensile Breaking Nominal Strain, %                        | 590           | GB/T 1040.2 |
| 5                                                                                                     | Notched Charpy Impact Strength (23 °C), kJ/m <sup>2</sup> | 4.6           | GB/T 1043.1 |
| <b>Note:</b> The above values are typical values and shall not be regarded as performance guarantees. |                                                           |               |             |

Product Features and Applications:

This injection-molded product demonstrates excellent fluidity and rigid-toughness balance. It is suitable for the production of various turnover boxes, household utensils, etc.

Recommended Processing Conditions:

When HSGC 7260 is used for injection-molded products, the recommended processing conditions are as follows.

| Processing Parameter                                                                                                                                                                                         |                      |                       |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|-----------------------|
| Barrel Temperature, °C                                                                                                                                                                                       | Mold Temperature, °C | Holding Pressure, bar | Injection Speed, mm/s |
| 170 ~ 250                                                                                                                                                                                                    | 40 ~ 70              | 50 ~ 110              | 20 ~ 40               |
| <b>Note:</b> The above processing conditions are for reference only. The user should adjust according to the requirements of the product, the situation of the production equipment and the process formula. |                      |                       |                       |

Packaging and Transportation:

- The product is packaged using heavy-duty film or other packaging forms approved by the user, with a net weight of 25 kg per bag or other packaging units as specified.
- The packaging must remain intact and protected from moisture, direct sunlight, and contamination.

Safe Storage Precautions:

Store the product in a well-ventilated, dry, clean warehouse equipped with appropriate fire safety facilities. Outdoor storage is strictly prohibited.

Additional Information:

- For compliance-related details (e.g., FDA, RoHS), please contact your local sales representative for further information.