

Hanwha Total PP HY110

Polypropylene Homopolymer
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

HY110 is a PP homopolymer for stretched tapes applications. This grade is suitable for laminating applications such as packaging films, injection-modeled housewares and woven bags.

| General Information | |
|---------------------|-----------------------|
| Additive | UV Stabilizer |
| Features | Good Processability |
| | Good Stretchability |
| | High Tensile Strength |
| | Homopolymer |
| Uses | Bags |
| | Containers |
| | Film |
| | Fishing Applications |
| | Household Goods |
| | Laminates |
| | Netting |
| | Packaging |
| | Tape |
| Forms | Pellets |
| Processing Method | Extrusion |
| | Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | 0.910 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 1.4 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 100 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 37.3 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 500 | % | ASTM D638 |
| Flexural Modulus | 1570 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 59 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |

| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 110 | °C | ASTM D648 |
|--|---------------|------|------------|
| Vicat Softening Temperature | 155 | °C | ASTM D1525 |
| Extrusion | Nominal Value | Unit | |
| Cylinder Zone 1 Temp. | 150 to 200 | °C | |
| Cylinder Zone 2 Temp. | 150 to 200 | °C | |
| Cylinder Zone 3 Temp. | 150 to 200 | °C | |
| Cylinder Zone 4 Temp. | 150 to 200 | °C | |
| Cylinder Zone 5 Temp. | 150 to 200 | °C | |
| Adapter Temperature | 180 to 220 | °C | |
| Die Temperature | 180 to 220 | °C | |

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