Hanwha Total PP RP100G160

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

RP100G160 is a propylene-ethylene copolymer grade, designed for hot and cold water supply systems. RP100G160 has excellent creep properties and processability by extrusion. RP100G160 is recommended for pressure pipe manufacturing, including tap water, underfloor heating and industrial applications. Pipes of RP100G160 complys with the quality requirements of the DIN 8078 or ISO 15874. RP100G160 is available in pellet form as gray.

| General Information | | | | |
|---|----------------------------|----------|-------------|--|
| Features | Copolymer | | | |
| | Weldable | | | |
| | Workability, good | | | |
| | Good creep resistance | | | |
| | Heat resistance, high | | | |
| | | | | |
| Uses | Industrial application | | | |
| | Piping system | | | |
| Agency Ratings | DIN 8078 | | | |
| | ISO/DIS 15874 | | | |
| | , | | | |
| Appearance | Grey | | | |
| Forms | Particle | | | |
| Processing Method | Pipeline extrusion molding | | | |
| | Extrusion | | | |
| Physical | Nominal Value | Unit | Test Method | |
| Density | 0.900 | g/cm³ | ASTM D1505 | |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 | | | | |
| kg) | 0.25 | g/10 min | ASTM D1238 | |
| Mechanical | Nominal Value | Unit | Test Method | |
| Tensile Strength | | | ASTM D638 | |
| Yield | 27.5 | MPa | ASTM D638 | |
| Fracture | 23.5 | MPa | ASTM D638 | |
| Tensile Elongation (Break) | 450 | % | ASTM D638 | |
| Flexural Modulus | 912 | MPa | ASTM D790 | |
| Impact | Nominal Value | Unit | Test Method | |
| Notched Izod Impact (0°C) | 88 | J/m | ASTM D256 | |
| Thermal | Nominal Value | Unit | Test Method | |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 90.0 | °C | ASTM D648 | |
| | | | | |

| Vicat Softening Temperature | 130 | °C | ASTM D1525 ¹ |
|-----------------------------|-----|----|-------------------------|
| Melting Temperature | 142 | °C | |

Additional Information

Oxidation Induction Time, ISO TR10837, 210°C: >30 minHydrostatic Pressure Test, ISO 1167, 16 MPa, 20°C: >1 hrsHydrostatic Pressure Test, ISO 1167, 3.5 MPa, 95°C: >1000 hrsHydrostatic Pressure Test, ISO 1167, 1.9 MPa, 110°C: >8760 hrsM.R.S., ISO TR9080: >8 MPaS.C.G., ISO 13479: >1000 hrs

| Extrusion | Nominal Value | Unit | |
|-----------------------|---------------|------|--|
| Cylinder Zone 1 Temp. | 180 - 220 | °C | |
| Cylinder Zone 2 Temp. | 180 - 220 | °C | |
| Cylinder Zone 3 Temp. | 180 - 220 | °C | |
| Cylinder Zone 4 Temp. | 180 - 220 | °C | |
| Cylinder Zone 5 Temp. | 180 - 220 | °C | |
| Adapter Temperature | 180 - 220 | °C | |
| Die Temperature | 180 - 220 | °C | |
| NOTE | | | |

1. 压力1 (10N)

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