



Producer:

HOSTALEN PP H5416

Description:

Hostalen PP H54156 is a natural polypropylene random copolymer. The product has a high heat-and extremely high extraction stability. It is not intended for medical and pharmaceutical applications.

Applications:

Industrial, Plumbing, Heating & Cooling

| TYPICAL PROPERTIES | METHOD | VALUE | UNIT |
|---|---------------|----------|-------------------|
| Density | ISO 1183 | 0.897 | g/cm ³ |
| Melt Flow Rate (MFR) | ISO 1183 | | |
| (230°C/2.16 Kg) | | 0.3 | g/10 min |
| (190°C/5.0 Kg) | | 0.5 | g/10 min |
| (230°C/5.0 Kg) | | 01.Mar | g/10 min |
| Viscosity number | ISO 1628-3 | 420 | ml/g |
| <u>Mechanical</u> | | | |
| Tensile Modulus (23°C, v=1 mm/min, Secant) | ISO 527-1, -2 | 850 | Mpa |
| Tensile Stress at Yield (23°C, v=50 mm/min) | ISO 527-1, -2 | 24 | Mpa |
| Tensile Strain at Yield (23°C, v=50 mm/min) | ISO 527-1, -2 | 10 | |
| Tensile Creep Modulus 1h | ISO 899-1 | 650 | Mpa |
| Tensile Creep Modulus 1000h | ISO 899-1 | 350 | Mpa |
| Flexural modulus (23°C) | ISO 178 | 850 | Mpa |
| Flexural stress at 3,5% deflection | ISO 178 | 20 | Mpa |
| <u>Impact</u> | | | |
| Charpy unnotched impact strength | ISO 179 | | |
| (23°C) | | No Break | kJ/m ² |
| (0°C) | | No Break | kJ/m ² |
| (-30°C) | | 43 | kJ/m ² |
| Charpy unnotched impact strength | ISO 179 | | |
| (23°C) | | 22 | kJ/m ² |
| (0°C) | | 4.5 | kJ/m ² |
| (-30°C) | | 2.5 | kJ/m ² |
| <u>Hardness</u> | | | |
| Shore hardness (Shore D (3 sec)) | ISO 868 | 65 | |
| Ball indentation hardness (H 132/30) | ISO 2039-1 | 45 | MPa |



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| <u>Thermal</u> | | | |
|--|-----------------|--------------------|----------|
| Thermal conductivity | ASTM C 177 | 0.24 | |
| Note: Unit W/mK | | | |
| Heat deflection temperature B (0.45 Mpa) Unannealed | ISO 75B-1, -2 | 70 | °C |
| Heat deflection temperature B (1.80 Mpa) Unannealed | ISO 75A-1, -2 | 49 | °C |
| Vicat Softenind temperature (VST/A/50 K/h (10 N) | ISO 306 | 132 | °C |
| (VST/B/50 K/h (50 N) | | 69 | °C |
| Melting temperature | DSC | 141 | °C |
| Note: ISO 11357-3: heating rate: 10K/min,2nd heating | | | |
| CLTE, Flow (23°C to 80°C) | ISO 11359-1, -2 | 0.00015 | cm/cm/°C |
| Note: Coefficient of linear thermal expansion / average value | | | |
| <u>Electrical</u> | | | |
| Specific surface resistivity | IEC 93 | > 10 ¹⁴ | Ohm |

Additional Properties**Processing:**

The recommended conditions will depend on the typ of equipment used and the size and wall thickness of the pipe or profile required.

Recommended melt temperatures: 200 - 230 °C

Recommended injection moulding temperatures: 200 - 280 °C

Features:

Antioxidant, Random Copolymer

Processing Method:

Extrusion Pipe Sheet and Semi finished Products