

CERTENE™ PHM-35AN

Polypropylene Homopolymer
Muehlstein

Message:

PHM-35AN is a certified prime grade Nucleated Polypropylene designed for injection molding of lightweight and thin-walled articles. PHM-35AN contains antistatic and offers good balance of high flow processability with high contact clarity, good tensile strength, short cycling, excellent dimensional stability, and good surface finishing. PHM-35AN applications include intricate long-flow path designs, multi-cavity parts, caps, closures, housewares, containers and toys. PHM-35AN processing temperature is between 220° to 240°C with mold at 20°-50°C. PHM-35AN complies with FDA regulation 21CFR 177.1520 and most international regulations concerning Polypropylene use in contact with food.

| General Information | | | |
|---|-----------------------------|----------|-------------|
| Additive | Nucleating agent | | |
| | Antistatic property | | |
| Features | Nucleated | | |
| | Good dimensional stability | | |
| | High tensile strength | | |
| | Homopolymer | | |
| | Antistatic property | | |
| | Workability, good | | |
| | Fast molding cycle | | |
| | High liquidity | | |
| | Definition, high | | |
| | Compliance of Food Exposure | | |
| Excellent appearance | | | |
| Uses | Thin wall container | | |
| | Industrial components | | |
| | Shield | | |
| | Household goods | | |
| | Toys | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.903 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 35 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 83 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |

| | | | |
|--|---------------|------|-------------|
| Tensile Strength ¹ (Yield, Injection Molded) | 32.0 | MPa | ASTM D638 |
| Tensile Elongation ² (Yield, Injection Molded) | 12 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ³ (Injection Molded) | 1170 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, Injection Molded) | 32 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded) | 93.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 152 | °C | ASTM D1525 |
| Additional Information | | | |
| All specimens were injection molded according to ASTM D2146 Type 1. | | | |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 220 - 240 | °C | |
| Mold Temperature | 20.0 - 50.0 | °C | |
| NOTE | | | |
| 1. | 50 mm/min | | |
| 2. | 50 mm/min | | |
| 3. | 1.3 mm/min | | |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

