

INSPIRE™ 364
Subgroup:

Performance Polymers

Description:

INSPIRE™364 Performance Polymer is a random copolymer for thin wall injection moulding applications. The grade is characterized by a balanced mix of key properties e.g. good stiffness/impact balance, superior organoleptics (low taste and odor), excellent optical properties and very high flowability

Application:

- Thin Wall Injection Moulding
- Housewares
- Media packaging
- Caps and closures

Process:

- Thin Wall Injection Moulding

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------|----------------------------|-------------------------|-------------|
| Density | 0.900 g/cm ³ | 0.900 g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (230°C/2.16 kg) | 42 g/10 min | 42 g/10 min | ISO 1133 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|----------------------------|--------------------|-------------|
| Tensile Stress (Yield, Injection Molded) | 4060 psi | 28 MPa | ISO 527-2 |
| Tensile Strain (Break, Injection Molded) | 12 % | 12 % | ISO 527-2 |
| Flexural Modulus (Injection Molded) | 152250 psi | 1050 MPa | ISO 178 |

| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------|----------------------------|--------------------|-------------|
| HDT B (0.45Mpa) | | 83 °C | ISO 75/B |
| Vicat Softening Point A (10N) | | 127 °C | ISO 306A |

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------------------------------|----------------------------|---------------------|-------------|
| Charpy Notched Impact Strength | | | ISO 179/eA |
| 32°F (0°C), Injection Molded | 0.98 ft·lb/in ² | 2 kJ/m ² | |
| 73°F (23°C), Injection Molded | 2.94 ft·lb/in ² | 6 kJ/m ² | |

| Optical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|----------------------------|--------------------|-------------|
| Haze (39.4 mil (1000 µm), Injection Molded) | 12 % | 12 % | ASTM D1003 |

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

Regulatory Information:

INSPIRE™ 364 complies with European Commission Regulation (EU) 10/2011. The appropriate regulations should be consulted for more detailed information.

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Additional Information:

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