

POKETONE® E700

Description

Barrier film grade for EVOH Blend

| Physical Properties | ASTM | Value | ISO | Value |
|--|----------|------------------------|-------|------------------------|
| Density | D792 | 1.18 g/cm ³ | 1183 | 1.18 g/cm ³ |
| Shore D hardness | D2240 | | 868 | |
| Hardness Rockwell | D785 | | 2039 | |
| Water absorption equilibrium at RH 50% | D570 | | 62 | |
| Water absorption at Saturation | D570 | | 62 | |
| Melt flow index 220°C/2.16kg | D1238 | 6 g/10 min | 1133 | |
| | D955 | | 294-4 | |
| Mold Shrinkage | MD, 3 mm | | | |
| | TD, 3 mm | | | |
| | MD, 2 mm | | | |
| | TD, 2 mm | | | |

| Mechanical Properties | ASTM | Value | ISO | Value |
|----------------------------------|-------|---------|---------|----------------------|
| Tensile strength at yield | D638 | 37 MPa | 527-1 | |
| Tensile modulus | D638 | | 527-1 | |
| Tensile elongation at yield | D638 | | 527-1 | |
| Tensile elongation at break | D638 | 150 % | 527-1 | |
| Flexural strength | D790 | 33 MPa | 178 | |
| Flexural modulus | D790 | 700 MPa | 178 | |
| Unnotched Izod impact strength | D256 | | 180/1U | |
| Notched Izod impact strength | D256 | | 180/1A | |
| Unnotched Charpy impact strength | D6110 | | 179/1eU | |
| Notched Charpy impact strength | D6110 | | 179/1eA | 27 kJ/m ² |
| Falling dart impact strength | | | 6603-2 | |

| Thermal Properties | ASTM | Value | ISO | Value |
|---|-----------|--------|----------|--------|
| Melting temperature | D3418 | 197 °C | 11357 | 197 °C |
| Coefficient of linear thermal expansion | E831 | | 11359 | |
| | 25 ~ 55°C | | | |
| Vicat softening point | D1525 | | 306/B50 | |
| | 5 kg | | 50 N | |
| Heat deflection temperature | D648 | | 75 | |
| | 66 psi | | 0.45 MPa | |
| | 264 psi | | 1.8 MPa | |

Extrusion Processing Conditions

| | Value | |
|--------------|---------------------------|--------------|
| Pre-drying | Drying temperature | 80 °C |
| | Drying time | 3 ~ 4 hr |
| | Suggested max moisture | 0.20 % |
| Temperature | Adapter & Die temperature | 210 °C |
| | Zone 5 temperature | 210 °C |
| | Zone 4 temperature | 210 °C |
| | Zone 3 temperature | 215 °C |
| | Zone 2 temperature | 225 °C |
| | Zone 1 temperature | 230 °C |
| | Jacket temperature | < 50 °C |
| | Processing temperature | 210 ~ 230 °C |
| Screw Design | L/D | > 26 |
| | Compression ratio | 2.5 ~ 3.0 |

* The data listed here is not for specification warranty, but typical value.

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