

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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