

POKETONE® M330F

Description High-flow injection molding grade (Food C	ontact)			
Physical Properties	ASTM	Value	ISO	Value
Density	D792	1.24 g/cm ³	1183	1.24 g/cm ³
Shore D hardness	D2240		868	77
Hardness Rockwell	D785	110	2039	
Water absorption equilibrium at RH 50%	D570	0.5 %	62	0.5 %
Water absorption at Saturation	D570	2.1 %	62	2.1 %
Melt flow index 240°C/2.16kg	D1238	60 g/10 min	1133	56 ml/10 mir
	D955		294-4	
	MD, 3 mm	2.0 %		
Mold Shrinkage	TD, 3 mm	2.0 %		
	MD, 2 mm	1.6 %		
	TD, 2 mm	1.5 %		
Mechanical Properties	ASTM	Value	ISO	Value
·			ISO	
Tensile strength at yield	D638	60 MPa	527-1	60 MPa
Tensile modulus	D638	1,600 MPa	527-1	1,500 MPa
Tensile elongation at yield	D638	21 %	527-1	21 %
Tensile elongation at break	D638	≥ 200 %	527-1	≥ 200 %
Flexural strength	D790	57 MPa	178	57 MPa
Flexural modulus	D790	1,500 MPa	178	1,400 MPa
Unnotched Izod impact strength	D256	N.B.	180/1U	N.B.
	D256	05.1/22	180/1A	7 1/1/22
Notched Izod impact strength	23 °C	95 J/m	23 °C	7 kJ/m ²
	-10 °C -30 °C	60 J/m	-10 °C -30 °C	4 kJ/m^2
Upper at about Charge increase at atrace at h		40 J/m		3 kJ/m ²
Unnotched Charpy impact strength	D6110		179/1eU	N.B.
	D6110		179/1eA 23 °C	8 kJ/m²
Notched Charpy impact strength			-10 °C	•
			-30 °C	4 kJ/m² 2 kJ/m²
			6603-2	2 KJ/III
Falling dart impact strength			23 °C	50 J
Thermal Properties	ASTM	Value	ISO	Value
Melting temperature	D3418	222 °C	11357	222 °C
Coefficient of linear thermal expansion	E831 25 ~ 55°C	9.7×10 ⁻⁵	11359	
Vicat softening point	D1525 5 kg	195 °C	306/B50 50 N	195 °C
	D648		75	
Heat deflection temperature	66 psi	200 °C	0.45 MPa	190 °C

92 °C

1.8 MPa

105 °C

264 psi



Flammability Properties	Test Method & Condition	Value
Flame resistance	UL 94	HB (0.8 mm)
Glow Wire Ignition Temperature (GWIT)	IEC 60695-2-13	725 °C (0.8 mm)
Glow Wire Flammability Index (GWFI)	IEC 60695-2-12	700 °C (0.8 mm)

Electrical Properties	Test Method & Condition	Value	
Dielectric Strength (DS)	ASTM D149	23 kV/mm	
Volume Resistivity (VR)	ASTM D257	10 ¹² Ω-cm	
Surface Resistivity (SR)	ASTM D257	$10^{17} \Omega/m^2$	
Dialogateia associate at COUL-	ASTM D150	6.2	
Dielectric constant at 60Hz	IEC 250	5	
Dissipation factor at COUL	ASTM D150	0.008	
Dissipation factor at 60Hz	IEC 250	0.013	
		PLC 4 (0.8 mm)	
Hot Wire Ignition (HWI)	UL 746A	PLC 3 (1.5 mm)	
		PLC 2 (3.0 mm)	
High Amp Arc Ignition (HAI)	UL 746A	PLC 0 (0.8 mm)	
High Volt arc Track Rate (HVTR)	UL 746A	PLC 0	
High voltage, low current Arc Resistance (AR)	ASTM D495	PLC 4	
Comparative Tracking Index (CTI)	ASTM D3638	PLC 0	

Injection Molding Processing Conditions		Value	
Pre-drying	Drying temperature	80 °C	
	Drying time	3 ~ 4 hr	
	Suggested max moisture	0.20 %	
Temperature	Nozzle temperature	240 °C	
	Zone 1 temperature	230 °C	
	Zone 2 temperature	220 °C	
	Zone 3 temperature	215 °C	
	Zone 4 temperature	210 °C	
	Processing temperature	225 ~ 240 °C	
	Mold temperature	60 ~ 80 °C	
Pressure	Back pressure	0.294 ~ 0.686 MPa	
Speed	Screw Speed	50 ~ 100 rpm	

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

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