

POKETONE® M33FG8A

Description

40% glass-reinforced injection molding grade

US FDA food contact compliance and NSF 61 NSI/CAN drinking water certificate on cold and hot water

Physical Properties	ASTM	Value	ISO	Value
Density	D792	1.57 g/cm ³	1183	1.57 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 240°C/2.16kg	D1238	10 g/10 min	1133	
	D955		294-4	
	MD, 3 mm			
Mold Shrinkage	TD, 3 mm			
	MD, 2 mm			
	TD, 2 mm			

Mechanical Properties	ASTM	Value	ISO	Value
Tensile strength at yield	D638	142 MPa	527-1	
Tensile modulus	D638		527-1	
Tensile elongation at yield	D638		527-1	
Tensile elongation at break	D638	2.7 %	527-1	
Flexural strength	D790	200 MPa	178	
Flexural modulus	D790	9,000 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	13 kJ/m²
Falling dart impact strength			6603-2	

Thermal Properties	ASTM	Value	ISO	Value
Melting temperature	D3418	222 °C	11357	222 °C
Coefficient of linear thermal expansion, 25 ~ 55°C	E831		11359	
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	



50 ~ 100 rpm

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

Screw Speed

Speed

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