

# Syensqo

PPSU

22000

Product information				
Manufacturer	SYENSQO			
Color	BK Light beige			
Material Shape	Pellets			
Process	Injection molding			
Material Attribute	Flame retardant Heat stabilized grade High heat resistance grade Hydrolysis stabilized grade Drinking water contact grade			
Features	Dimensional stabilityHigh toughnessStress crack resistanceCold-resistanceHigh heat resistanceAcid resistantAlkali-resistingChemical ResistantDurable			
Application	ConnectorFittingsPipePlumbing partsMain body of shower faucetThermostatic cartridge			
Electrical properties	Condition	Standard	Value	Unit
Dielectric	Strength 3.2mm	ASTM D149	19	KV/mm
Dielectric	Constant 1MHz	ASTM D150	3.40	
Dissipation	Factor 1MHz	ASTM D150	0.008	
Volume	Resistivity	ASTM D257	9E+15	Ω.cm
Mechanical behavior	Condition	Standard	Value	Unit
Elongation	Yield	ASTM D638	6.7	%
Elongation	Break	ASTM D638	50	%
Flexural	Strength Yield	ASTM D790	108	MPa
Flexural	Modulus	ASTM D790	2760	MPa
Izod	Notch Impact	ASTM D256	110	J/m
Tensile	Modulus	ASTM D638	2690	MPa
Tensile	Strength	ASTM D638	77.2	MPa
Tensile	Impact Strength	ASTM D1822	368	kJ/m <sup>2</sup>
Physical property	Condition	Standard	Value	Unit
Density		ASTM D792	1.28	g/cm <sup>3</sup>
Melt	Index 380°C 2.16kg	ASTM D1238	12	g/10min
Shrinkage	Flow	ASTM D955	0.70	%
Water	Absorption 24hr	ASTM D570	0.30	%
Water	Absorption 30days	ASTM D570	0.90	%
Thermal	Condition	Standard	Value	Unit
HDT	Annealed 1.8MPa 3.2mm	ASTM D648	197	°C