

Syensqo

PSU

P-3703 NT 11

Product information

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| Manufacturer | SYENSQO |
| Color | TP CL |
| Material Shape | Pellets |
| Process | Injection molding Extrusion molding |
| FR | HB V-0 |
| Material Attribute | Flame retardant High heat resistance grade Hydrolysis stabilized grade Drinking water contact grade Food Contact grade |
| Features | Hydrocarbon resistantAcid resistantAlcohol resistantAlkali-resistingChemical ResistantHigh toughnessHigh flowHigh heat resistance |
| Application | AppliancesAppliance componentsAutomotive electronicsBatteriesBusiness equipmentElectrical partsE & E ApplicationsFood service applicationsIndustrial partsMicrowave cookwarePipePlumbing partsValves/valve parts |

| Electrical properties | Condition | Standard | Value | Unit |
|-----------------------|---------------|-----------|--------|-------|
| Dielectric | Strength | ASTM D149 | 17 | KV/mm |
| Dielectric | Constant 60Hz | ASTM D150 | 3.03 | |
| Dielectric | Constant 1KHz | ASTM D150 | 3.04 | |
| Dielectric | Constant 1MHz | ASTM D150 | 3.02 | |
| Dissipation | Factor 60Hz | ASTM D150 | 0.0011 | |
| Dissipation | Factor 1KHz | ASTM D150 | 0.0013 | |
| Dissipation | Factor 1MHz | ASTM D150 | 0.005 | |
| Volume | Resistivity | ASTM D257 | 5E+16 | Ω.cm |

| Flammability | Condition | Standard | Value | Unit |
|--------------|-----------------|----------|-------|------|
| Flame | Rating NC 1.5mm | UL94 | HB | |
| Flame | Rating NC 4.5mm | UL94 | V-0 | |

| Mechanical behavior | Condition | Standard | Value | Unit |
|---------------------|-----------------|------------|--------|-------------------|
| Elongation | Break | ASTM D638 | 50~100 | % |
| Flexural | Strength | ASTM D790 | 106 | MPa |
| Flexural | Modulus | ASTM D790 | 2690 | MPa |
| Izod | Notch Impact | ASTM D256 | 69 | J/m |
| Tensile | Modulus | ASTM D638 | 2480 | MPa |
| Tensile | Strength Break | ASTM D638 | 70.3 | MPa |
| Tensile | Impact Strength | ASTM D1822 | 420 | kJ/m ² |

| Physical property | Condition | Standard | Value | Unit |
|-------------------|--------------------|------------|-------|-------------------|
| Density | | ASTM D792 | 1.24 | g/cm ³ |
| Melt | Index 343°C 2.16kg | ASTM D1238 | 17 | g/10min |
| Shrinkage | Flow | ASTM D955 | 0.70 | % |

| | | | | |
|----------------|-------------------|-----------------|--------------|-------------|
| Water | Absorption 24hr | ASTM D570 | 0.30 | % |
| Thermal | Condition | Standard | Value | Unit |
| CLE | Flow | ASTM D696 | 5.6E-5 | cm/cm/°C |
| HDT | Unannealed 1.8MPa | ASTM D648 | 174 | °C |