

YUNGSOX®**PP****5090R**

Product Information	
Manufacturer	Taiwan Plastics Industry Co., Ltd.
Other Certificates	MSDS
Material Identification	PP
Color	Transparent
Material Form	Granular / Pellets
Polymer	Random Copolymer
Material Attributes	Food-Contact Grade, Medical Grade
Compliance	• FDA 21 CFR 177.1520 • RoHS
Material Characteristics	• Transparency • Chemical Resistance • Gamma Radiation
Intended Applications	Disposable Syringes

Certification



Physical Properties	Test Standard	Value	Unit
Specific Gravity	ISO 1183	0.9	g/cm ³
Mold Shrinkage	Internal Test Method	1.3 ~ 1.7	%
Melt Flow Index	ISO 1133	17	g/10 min
Hardness	Test Standard	Value	Unit
Rockwell Hardness (R Scale)	ISO 2039	98	
Mechanical Properties	Test Standard	Value	Unit
Tensile Strength at Yield	ISO 527	280	kg/cm ²
Elongation at Break	ISO 527	300	%
Flexural Modulus	ISO 178	10,500	kg/cm ²
Izod Notched Impact Strength at 23 °	ISO 180	6	kg·cm/cm
Thermal Properties	Test Standard	Value	Unit
Heat Distortion Temperature (HDT)	ISO 75	95	°C
Vicat Softening Temperature	ISO 306	125	°C
Melting Temperature (DSC)	Internal Test Method	146	°C