

YUNGSOX® PP 5003

Polypropylene Random Copolymer

Formosa Polypropylene

Message:

YUNGSOX® PP 5003 is a Polypropylene Random Copolymer (PP Random Copolymer) material. It is available in Asia Pacific.

Important attributes of YUNGSOX® PP 5003 are:

Impact Resistant

Copolymer

Creep Resistant

Typical applications include:

Food Contact Applications

Plumbing/Piping/Potable Water

Sheet

General Information			
Features	Good Creep Resistance		
	High Impact Resistance		
	Low Temperature Impact Resistance		
	Random Copolymer		
	Stress Whitening Resistant		
Uses	Blow Molding Applications		
	Piping		
	Sheet		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.25	g/10 min	ISO 1133
Molding Shrinkage	1.3 to 1.7	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	24.5	MPa	ISO 527-2
Tensile Strain (Break)	500	%	ISO 527-2
Flexural Modulus	785	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180
-20°C	59	J/m	
23°C	390	J/m	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	85.0	°C	ISO 75-2/A
Vicat Softening Temperature	128	°C	ISO 306
Melting Temperature	142	°C	DSC

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