

# POLYPRO® 5010U

Polypropylene Homopolymer  
YUHWA Korea Petrochemical Ind. Co., Ltd.

Message:

POLYPRO® 5010U is a Polypropylene Homopolymer (PP Homopolymer) material. It is available in Asia Pacific.

Important attributes of POLYPRO® 5010U are:

RoHS Compliant

Good Weather Resistance

Homopolymer

Typical applications include:

Fabrics/Fibers

Food Contact Applications

General Information			
Features	Good Weather Resistance		
	Homopolymer		
Uses	Fabrics		
	Fibers		
	Textile Applications		
Agency Ratings	FDA Food Contact, Unspecified Rating		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0 to 2.0	%	Internal Method
Water Absorption (Equilibrium)	< 0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	96		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	34.3	MPa	ASTM D638
Tensile Elongation (Break)	> 500	%	ASTM D638
Flexural Modulus	1370	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525
Peak Melting Temperature	163	°C	ASTM D3418

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