# **KPOL-PP K-PPH 2.1 S**

## Polypropylene Homopolymer

KPOL Chem Co.

#### Message:

Polypropylene Homopolymer

Characteristics

The KPOL® is specially developed for Production of Extrusion, Blow and possibly injection molding.

This product exhibits excellent processability, good melt stability, good stiffness/impact strength balance and low odor and flavor transfer. It is a controlled rheology grade.

**Applications** 

Mechanical

The KPOL® is a low melt flow rate homopolymer used for general purpose and multipurpose. Extrusion-Compression Molding of caps for soft drink and water bottles.

Additive  Nucleating Agent Slip  Features  Controlled Rheology General Purpose Good Impact Resistance Good Processability Good Stiffness Homopolymer Low Flow Low Odor Transfer Low Taste Transfer Nucleated Slip  Uses  Caps Agency Ratings FDA 21 CFR 177.1520  Processing Method  Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical  Nominal Value Unit Test Method  Density  0.903 g/cm³ ASTM D1505	General Information				
Features  Controlled Rheology General Purpose Good Impact Resistance Good Processability Good Stiffness Homopolymer Low Flow Low Odor Transfer Nucleated Slip  Uses  Caps  Agency Ratings FDA 21 CFR 177.1520  Processing Method Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical Nominal Value Unit Test Method  Density O903  Molding  Extrusion Fiber (Spinning) Extrusion Injection Molding  ASTM D1505	Additive	Nucleating Agent			
General Purpose Good Impact Resistance Good Processability Good Stiffness Homopolymer Low Flow Low Odor Transfer Nucleated Slip  Uses Caps Agency Ratings FDA 21 CFR 177.1520  Processing Method Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical Nominal Value Unit Test Method Density Osoad Nominal Value Density  Richard Signard  Good Processability Good Stiffness Homopolymer Low Flow Good Stiffness		Slip			
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Good Processability Good Stiffness Homopolymer Low Flow Low Odor Transfer Low Taste Transfer Nucleated Slip  Uses Agency Ratings FDA 21 CFR 177.1520  Processing Method Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding Extrusion Fiber (Spinning) Extrusion Injection Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical Density  Nominal Value Unit Test Method  ASTM D1505		General Purpose			
Good Stiffness Homopolymer Low Flow Low Odor Transfer Low Taste Transfer Nucleated Slip  Uses  Agency Ratings  FDA 21 CFR 177.1520  Processing Method Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical  Nominal Value Unit Test Method Density 0.903  ASTM D1505		Good Impact Resistance			
Homopolymer Low Flow Low Odor Transfer Low Taste Transfer Nucleated Slip  Uses  Caps  Agency Ratings  FDA 21 CFR 177.1520  Processing Method Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical  Nominal Value Unit Test Method  Density  0.903  g/cm³ ASTM D1505		Good Processability			
Low Odor Transfer Low Taste Transfer Nucleated Slip  Uses  Caps  Agency Ratings FDA 21 CFR 177.1520  Processing Method Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical Nominal Value Unit Test Method Density ASTM D1505		Good Stiffness			
Low Odor Transfer Low Taste Transfer Nucleated Slip  Uses  Caps  Agency Ratings  FDA 21 CFR 177.1520  Processing Method Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Extrusion Fiber (Spinning) Extrusion One of the process o		Homopolymer			
Low Taste Transfer Nucleated Slip  Uses  Caps  Agency Ratings  FDA 21 CFR 177.1520  Processing Method  Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical  Nominal Value  Unit  Test Method  Density  ASTM D1505		Low Flow			
Nucleated Slip  Uses  Caps  Agency Ratings  FDA 21 CFR 177.1520  Processing Method  Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical  Nominal Value  Unit  Test Method  Density  ASTM D1505		Low Odor Transfer			
Uses Caps  Agency Ratings FDA 21 CFR 177.1520  Processing Method Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical Nominal Value Unit Test Method  Density 0.903 g/cm³ ASTM D1505		Low Taste Transfer			
Uses Caps  Agency Ratings FDA 21 CFR 177.1520  Processing Method Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical Nominal Value Unit Test Method  Density 0.903 g/cm³ ASTM D1505		Nucleated			
Agency Ratings  FDA 21 CFR 177.1520  Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical  Nominal Value  Unit  Test Method  Density  0.903  ASTM D1505		Slip			
Agency Ratings  FDA 21 CFR 177.1520  Blow Molding Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical  Nominal Value  Unit  Test Method  Density  0.903  ASTM D1505					
Processing Method  Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical  Nominal Value  Unit  Test Method  Density  0.903  g/cm³  ASTM D1505	Uses	Caps			
Extrusion Fiber (Spinning) Extrusion Injection Molding  Physical Density  Extrusion Fiber (Spinning) Extrusion Unit Test Method ASTM D1505	Agency Ratings	FDA 21 CFR 177.1520			
Fiber (Spinning) Extrusion Injection Molding  Physical Nominal Value Unit Test Method  Density 0.903 g/cm³ ASTM D1505	Processing Method	Blow Molding			
Injection Molding       Physical     Nominal Value     Unit     Test Method       Density     0.903     g/cm³     ASTM D1505		Extrusion			
Physical Nominal Value Unit Test Method Density 0.903 g/cm³ ASTM D1505		Fiber (Spinning) Extrusion			
Density 0.903 g/cm <sup>3</sup> ASTM D1505		Injection Molding			
Density 0.903 g/cm <sup>3</sup> ASTM D1505					
	Physical	Nominal Value	Unit	Test Method	
	Density	0.903	g/cm³	ASTM D1505	
Melt Mass-Flow Rate (MFR) (230°C/2.16         kg)       2.1       g/10 min       ASTM D1238	Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.1	g/10 min	ASTM D1238	
Hardness Nominal Value Unit Test Method	Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale) 94 ASTM D785	Rockwell Hardness (R-Scale)	94		ASTM D785	

Unit

Test Method

Nominal Value

Tensile Strength <sup>1</sup> (Yield)	36.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	8.5	%	ASTM D638
Flexural Modulus - 1% Secant	1550	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	41	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45			
MPa, Unannealed)	106	°C	ASTM D648
NOTE			
1.	Type IV, 50 mm/min		
2.	Type IV, 50 mm/min		

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# Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

