

# KPOL-PP K-PPH 5.0

Polypropylene Homopolymer

KPOL Chem Co.

Message:

Polypropylene Homopolymer

Characteristics

The KPOL® is specially developed for producing rigid injection molded articles for general purpose applications. It gives consistent processability and high gloss at the products. It is a controlled rheology grade.

Applications

The KPOL® is a homopolymer used for general purpose injection moulding applications.

It is suitable for production of complex articles with long flow paths and thin walls. Typical applications are closures and garden furniture.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Controlled Rheology		
	General Purpose		
	Good Processability		
	High Gloss		
	Homopolymer		
Uses	Closures		
	Furniture		
	Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	34.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	10	%	ASTM D638
Flexural Modulus - 1% Secant	1550	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	104	°C	ASTM D648
Vicat Softening Temperature	154	°C	ASTM D1525 <sup>3</sup>

NOTE	
1.	Type IV, 50 mm/min
2.	Type IV, 50 mm/min
3.	Rate A (50°C/h), Loading 1 (10 N)

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