KPOL-PP K-PPR 40.0

Polypropylene Random Copolymer

KPOL Chem Co.

Message:

Polypropylene Random Copolymer for Injection Molding
Applications
Containers with high transparency, Containers for freezer, Housewares, Lids and Closures and Battery Cases.
Injection Molding and Injection Stretch Blow Molding of bottles and packages.
Characteristics
The KPOL® resin is specially developed for producing injection molded articles with high clarity and also has better impact properties than homo PP counterparts. It exhibits excellent processability and transparency, good balance of rigidity/impact and very low odor and flavor transfer.
Good Chemical Resistance, High Clarity, Good Impact Resistance, Good Processability, Medium Rigidity.
KPOL - K-PPR 40.0 is suitable for Food contact application.

General Information	
Additive	Antioxidant
	Nucleating Agent
Features	Antioxidant
	BPA Free
	Food Contact Acceptable
	Good Chemical Resistance
	Good Impact Resistance
	Good Processability
	High Clarity
	High Gloss
	Low Odor Transfer
	Low Taste Transfer
	Medium Rigidity
	Nucleated
	Random Copolymer
Uses	Battery Cases
	Bottles
	Closures
	Containers
	Household Goods
	Lids
	Packaging
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.902	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	83		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield)	29.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	14	%	ASTM D638
Flexural Modulus - 1% Secant	1100	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	48	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	81.0	°C	ASTM D648
Vicat Softening Temperature	127	°C	ASTM D1525 [3]
NOTE			
1.	Type IV, 50 mm/min		
2.	Type IV, 50 mm/min		
3.	Rate A (50°C/h), Loading 1 (10 N)		

Recommended distributors for this material

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