

SABIC® PP QR6711K

Polypropylene Random Copolymer

SABIC Americas, Inc.

Message:

Provisional - PP random co-polymer for Injection moulding

QR6711K is a controlled Rheology grade with narrow molecular weight distribution intended specifically for producing injection molded articles with high clarity, good flow properties & better impact properties than homo PP counterparts. This grade contains advance clarifier & anti-static agent.

QR6711K has following features:

- Consistent processability
- Good stiffness
- Exceptional clarity
- Low thickness
- Low warpage
- Easy to flow
- Better cycle time comparing to normal random grades
- Less energy consumption

Typical Applications

QR6711K can be used mainly for clear thin wall containers & boxes, housewares, caps & closures and lids.

General Information	
Additive	Antistatic Clarifier
Features	Antistatic Controlled Rheology Fast Molding Cycle Food Contact Acceptable Good Flow Good Impact Resistance Good Processability Good Stiffness High Clarity Low Warpage Narrow Molecular Weight Distribution Random Copolymer
Uses	Caps Closures Household Goods Lids Thin-walled Parts Transparent Parts
Appearance	Clear/Transparent

Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.905	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	45	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0 to 2.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	28.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	13	%	ASTM D638
Flexural Modulus - 1% Secant (Injection Molded)	1150	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	56	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	71.0	°C	ASTM D648
Vicat Softening Temperature	124	°C	ASTM D1525 ²
Injection	Nominal Value	Unit	
Rear Temperature	185 to 225	°C	
Middle Temperature	185 to 225	°C	
Front Temperature	185 to 225	°C	
Mold Temperature	25.0 to 40.0	°C	
NOTE			
1.	23°C		
2.	Rate B (120°C/h)		

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