

Clyrell RC5003

Polypropylene Random Copolymer

PolyMirae

Message:

Clyrell RC5003 is the polypropylene random copolymer manufactured by PMC under the license of BASSELL using the Spheripol process.

Clyrell RC5003 is a random copolymer particularly suitable for injection molding of houseware.

Clyrell RC5003 meets the FDA requirement in the code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Flow		
	Good Impact Resistance		
	Good Stiffness		
	Good Surface Finish		
	High Clarity		
	High Gloss		
	Low Odor Transfer		
	Low Taste Transfer		
Random Copolymer			
Uses	Bottles		
	Containers		
	Household Goods		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	29.4	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	11	%	ASTM D638
Flexural Modulus (Injection Molded)	1130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256

-20°C, Injection Molded	20	J/m	
23°C, Injection Molded	49	J/m	
Optical	Nominal Value	Unit	Test Method
Haze (2000 μm, Injection Molded)	9.0	%	ASTM D1003

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