

CERTENE™ PRM-80C

Polypropylene Random Copolymer
Muehlstein

Message:

PRM-80C is a certified prime grade, Clarified copolymer. PRM-80C is designed for high-speed INJECTION MOLDING of medium and thin-walled parts needing exceptional clarity. PRM-80C offers high melt flow, excellent processability and fast cycle times. PRM-80C applications include thin-walled parts, cups and household articles. PRM-80C complies with FDA regulation 21CFR 177.1520(c)3.1a and 3.2a; conditions of use B-H as defined in Table 2 of 21CFR 176.170(c).

General Information			
Additive	Clarifier		
Features	Workability, good		
	Fast molding cycle		
	High liquidity		
	Definition, high		
	Random copolymer		
Uses	Thin wall parts		
	Cup		
	Household goods		
Agency Ratings	FDA 21 CFR 176.170(c), Table 2 1		
	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	80	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	27.6	MPa	ASTM D638
Tensile Elongation ² (Yield)	13	%	ASTM D638
Flexural Modulus - 1% Secant ³	1030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	85.0	°C	ASTM D648
Additional Information			
Test made on injection molded Type 1 tension test specimen according to ASTM D 2146.			

NOTE

1.	50 mm/min
2.	50 mm/min
3.	1.3 mm/min

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