

# CERTENE™ PRM-55C

Polypropylene Random Copolymer  
Muehlstein

Message:

PRM-55C is a certified prime grade WITH CLARIFIER developed for high speed, thin-wall, high clarity, INJECTION MOLDING applications. PRM-55C combines high flow and easy processability with fast cycling and balanced mechanical properties. PRM-55C applications include thin-walled multi-cavity containers that require good dimensional stability. PRM-55C processing temperature is 205° to 220°C with mold at 20°- 40°C. PRM-55C complies with FDA regulation 21CFR 177.1520 (c)3.1 (a) and most international regulations concerning Polypropylene in contact with food articles.

General Information			
Additive	Clarifier		
Features	Good dimensional stability		
	Workability, good		
	Fast molding cycle		
	High liquidity		
	Definition, high		
	Compliance of Food Exposure		
	Random copolymer		
Uses	Thin wall packaging		
	Thin wall parts		
	Household goods		
	Consumer goods application field		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	55	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, Injection Molded)	28.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, Injection Molded)	14	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (Injection Molded)	1070	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	54	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648

Optical	Nominal Value	Unit	Test Method
Haze (508 $\mu\text{m}$ , injection molding)	15	%	Internal method
Additional Information			
Performed on ASTM D 638 Type I specimen, molded and tested in accordance with ASTM D 4101.			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	205 - 220	$^{\circ}\text{C}$	
Mold Temperature	20.0 - 40.0	$^{\circ}\text{C}$	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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#### Recommended distributors for this material

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