CERTENE™ PRM-12C

Polypropylene Random Copolymer

Muehlstein

Message:

PRM-12C is a certified prime grade Clarified Injection Molding copolymer specially designed for thin-walled applications requiring excellent clarity and good impact resistance. PRM-12C exhibits medium-high flow rate, very good processability, rapid mold filling, fast cycle time, very good dimensional stability, low warpage, and good balance of mechanical properties. PRM-12C typical applications include high quality housewares where high clarity is a most, thin-wall high gloss rigid packaging, and high quality consumer articles. PRM-12C complies with FDA regulation 21CFR 177.1520 (a)(3)(i) / (c)3.1 + 3.2, and most international regulations concerning the use of Polypropylene in contact with food.

General Information				
Features	Good dimensional stability			
	Low warpage			
	Rigidity, high			
	Highlight			
	Impact resistance, good			
	Workability, good			
	Fast molding cycle			
	Medium liquidity			
	Definition, high			
	Compliance of Food Exposure			
	Random copolymer			
Uses	Thin wall packaging			
	Household goods			
	Consumer goods application field			
Agency Ratings	FDA 21 CFR 177.1520(a) 3 (i)			
	FDA 21 CFR 177.1520(c) 3.1			
	FDA 21 CFR 177.1520(c) 3.2			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Density	0.900	g/cm³	ASTM D1505	
Melt Mass-Flow Rate (MFR) (230°C/2.16	10	40 :	4.CT. 4.D.4.0.0	
kg)	12	g/10 min	ASTM D1238	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	89		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength ¹ (Yield, Injection Molded)	28.9	MPa	ASTM D638	

Tensile Elongation ² (Yield, Injection				
Molded)	9.0	%	ASTM D638	
Flexural Modulus - 1% Secant ³ (Injection				
Molded)	1170	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (23°C, Injection				
Molded)	80	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (0.45				
MPa, Unannealed, Injection Molded)	87.0	°C	ASTM D648	
Vicat Softening Temperature	128	°C	ASTM D1525	
Additional Information				
All specimens were injection molded according to ASTM D2146 Type 1.				
NOTE				
1.	50 mm/min			
2.	50 mm/min			
3.	1.3 mm/min			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

