

CERTENE™ PRM-35C

Polypropylene Random Copolymer

Muehlstein

Message:

PRM-35C is a certified prime grade Clarified Injection Molding copolymer specially designed for thin-walled applications requiring outstanding clarity and good impact resistance. PRM-35C exhibits high flow rate, very good processability, high speed mold filling, fast cycle time, very good dimensional stability, low blooming, and good balance of mechanical properties. PRM-35C typical applications include high quality consumer articles, thin-wall high gloss rigid packaging, and high quality housewares where high clarity is a key requirement. PRM-35C 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 blur phenomenon		
	Highlight		
	Impact resistance, good		
	Workability, good		
	Fast molding cycle		
	High liquidity		
	Definition, high		
	Compliance of Food Exposure		
	Random copolymer		
	Medium hardness		
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/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	93		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Injection Molded)	27.9	MPa	ASTM D638

Tensile Elongation ² (Yield, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1020	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	82.0	°C	ASTM D648
Vicat Softening Temperature	134	°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



WECHAT