

CERTENE™ PRM-35

Polypropylene Random Copolymer
Muehlstein

Message:

PRM-35 is a certified prime grade Injection Molding copolymer specially designed for high speed injection of thin-walled applications requiring very good clarity and good impact resistance. PRM-35 exhibits 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-35 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-35 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		
	High liquidity		
	Definition, high		
	Compliance of Food Exposure		
Uses	Random copolymer		
	Thin wall packaging		
	Household goods		
Agency Ratings	Consumer goods application field		
	FDA 21 CFR 177.1520(a) 3 (i)		
	FDA 21 CFR 177.1520(c) 3.1		
Forms	FDA 21 CFR 177.1520(c) 3.2		
	Particle		
	Injection molding		
Processing Method			
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)	96		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Injection Molded)	28.3	MPa	ASTM D638

Tensile Elongation ² (Yield, Injection Molded)	11	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	85.0	°C	ASTM D648
Vicat Softening Temperature	138	°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

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