

CERTENE™ SGM-080K

General Purpose Polystyrene
Muehlstein

Message:

SGM-080K is a certified prime grade offering supreme practical toughness and strength for general purpose INJECTION MOLDING applications. SGM-080K is an easy processing resin that offers good balance of processability and high clarity. SGM-080K applications include thin-walled containers, disposable cups, decorative lighting, cutlery, audio and video cassette enclosures, and blends with High Impact Polystyrene for improvement of flexural and toughness properties. SGM-080K complies with UL94HB and FDA regulation 21CFR 177.1640 and with most international regulations concerning the use of Polystyrene in contact with food articles.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Good Toughness		
	High Clarity		
	High Strength		
Uses	Audio Tapes		
	Blending		
	Cups		
	Disposable Tableware		
	Lighting Fixtures		
	Thin-walled Containers		
	Video Cassettes		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness ¹ (M-Scale)	72		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	3030	MPa	ASTM D638
Tensile Strength ² (Yield, Injection Molded)	46.2	MPa	ASTM D638
Tensile Elongation ³ (Break, Injection Molded)	2.0	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (Injection Molded)	3100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (3.18 mm, Injection Molded)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	92.0	°C	ASTM D648
Vicat Softening Temperature ⁵	98.0	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
NOTE			
1.	Injection molded		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	1.3 mm/min		
5.	Injection molded		

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