

KRATON® G7820 GU-N

Styrene Ethylene Butylene Styrene Block Copolymer

Kraton Polymers LLC

Message:

Kraton G7820 GU-N is an easy processing, general purpose 90 Shore A hardness material designed for a wide variety of applications. It is supplied from North America in the physical form identified below.

Kraton G7820 GU-N - supplied as a dense, natural color pellet

General Information			
Features	General Purpose		
	Good Processability		
	Recyclable Material		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
	Thermoforming		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11 to 1.17	g/cm ³	Internal Method
Molding Shrinkage - Flow	1.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	85 to 95		Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	12.8	MPa	ASTM D412
Tensile Elongation ² (Break)	650	%	ASTM D412
Tear Strength ³	49.0	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	27	%	
70°C, 22 hr	64	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 168 hr)	85	%	ASTM D573
Change in Ultimate Elongation in Air	80	%	ASTM D573
Change in Durometer Hardness (Shore A)	1.0		ASTM D573
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-52.0	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴	56	mm/min	FMVSS 302
Ozone Resistance ⁵ (38°C)	No Cracking		ASTM D518/1149

Injection	Nominal Value	Unit
Suggested Max Regrind	25	%
Rear Temperature	193 to 204	°C
Front Temperature	204 to 216	°C
Nozzle Temperature	216 to 232	°C
Mold Temperature	26.7 to 65.6	°C
Injection Pressure	3.45 to 4.83	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.689 to 1.38	MPa

NOTE

1. Compression Molded Slabs
2. Compression Molded Slabs
3. Die C
4. SAE J369, Determined on 4" x 14" x 0.050" plaques.
5. 100 pphm, 72 hr, 7X magnification

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