

KRATON® G7705 GI-N

Styrene Ethylene Butylene Styrene Block Copolymer

Kraton Polymers LLC

Message:

Kraton G7705 GI-N is an easy processing, general purpose 44 Shore A hardness material designed for a wide variety of applications. It is supplied from North America in the physical form identified below.

Kraton G7705 GI-N - supplied as a dense, natural color pellet

General Information	
Features	General Purpose
	Good Processability
	High Heat Resistance
	High Strength
	Ozone Resistant
	Soft
Uses	General Purpose
Appearance	Natural Color
Forms	Pellets
Processing Method	Extrusion
	Injection Molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15 to 1.25	g/cm ³	Internal Method
Molding Shrinkage - Flow	1.7	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	39 to 49		Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	2.07	MPa	ASTM D412
Tensile Strength (Yield)	4.14	MPa	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412
Tear Strength	17.5	kN/m	ASTM D624
Compression Set			ASTM D395B
23°C, 22 hr	15	%	
70°C, 22 hr	38	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 158 hr)	35	%	ASTM D573
Change in Ultimate Elongation in Air (150°C, 158 hr)	25	%	ASTM D573

Change in Durometer Hardness in Air (Shore A, 150°C, 158 hr)	2.0		ASTM D573
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-52.8	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.27 mm)	51	mm/min	FMVSS 302
Ozone Resistance ¹ (38°C)	No Cracking		ASTM D518/1149
Temperature - Long Term Upper Service	> 125	°C	
Injection	Nominal Value	Unit	
Rear Temperature	193 to 204	°C	
Front Temperature	204 to 216	°C	
Nozzle Temperature	216 to 232	°C	
Injection Pressure	3.45 to 4.83	MPa	
Injection Rate	Moderate-Fast		
Back Pressure	0.689 to 1.38	MPa	
NOTE			
1.	100 pphm, 72 hrs, 7X magnification		

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