

KRATON® G7705 GI-B

Styrene Ethylene Butylene Styrene Block Copolymer

Kraton Polymers LLC

Message:

Kraton G7705 GI-B 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-B- supplied as a dense, black pellet

General Information			
Features	General Purpose		
	Good Processability		
	High Heat Resistance		
	High Strength		
	Ozone Resistant		
	Soft		
Uses	General Purpose		
Appearance	Black		
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			
23°C, 22 hr	15	%	ASTM D395B
70°C, 22 hr	38	%	ASTM D395
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	
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. 100 pphm, 72 hrs, 7X magnification

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