

KRATON® G-2705

Styrene Ethylene Butylene Styrene Block Copolymer

Kraton Polymers LLC



Prospector

Product Description

This material can be radiation sterilized with minimal color shift and excellent property retention.

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Food Contact Acceptable • Good Chemical Resistance • Good Weather Resistance	• High Strength • Low Viscosity • Oxidation Resistant	• Ozone Resistant
Uses	• Automotive Applications • Closures • Food Service Applications	• Medical Appliances • Medical/Healthcare Applications • Pharmaceuticals	• Sporting Goods
Agency Ratings	• FDA Unspecified Rating		
Appearance	• Clear/Transparent	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Blow Molding • Coating	• Compression Molding • Extrusion	• Injection Molding • Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	28	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	2.0 to 2.4	%	
Across Flow	1.4 to 1.8	%	

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	2.76	MPa	ASTM D412
Tensile Strength (Yield)	5.86	MPa	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412
Tear Strength (23°C)	24.5	kN/m	ASTM D624
Compression Set (23°C)	18	%	ASTM D395

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	55		ASTM D2240

Injection	Nominal Value	Unit
Drying Temperature	51.7	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Regrind	20	%
Rear Temperature	65.6 to 93.3	°C
Middle Temperature	204 to 246	°C
Front Temperature	204 to 246	°C
Nozzle Temperature	235	°C
Processing (Melt) Temp	221 to 260	°C
Mold Temperature	35.0 to 65.6	°C
Injection Pressure	3.45 to 6.89	MPa
Injection Rate	Fast	
Back Pressure	0.345	MPa
Screw Speed	25 to 75	rpm
Clamp Tonnage	1.4 to 3.4	kN/cm ²

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	79.4	°C
Cylinder Zone 2 Temp.	191 to 235	°C
Cylinder Zone 3 Temp.	191 to 235	°C
Cylinder Zone 4 Temp.	191 to 235	°C
Cylinder Zone 5 Temp.	191 to 235	°C
Melt Temperature	191 to 232	°C
Die Temperature	235	°C

KRATON® G-2705
Styrene Ethylene Butylene Styrene Block Copolymer
Kraton Polymers LLC

Tuesday, November 03, 2009

Notes

¹ Typical properties: these are not to be construed as specifications.