

Technical Data Sheet

Diamaloy ABSPC 754M 50567NAT



Polycarbonate + ABS

Product Description

Diamaloy ABSPC 754M- Medical Grade resin is a non-reinforced, flame retardant, antimony-, bromine-, and chlorine free. *Diamaloy* ABSPC 754M is naturally opaque and is available in custom colors. High heat and impact resistance.

Attribute	Amorphous; High Heat Resistance; High Impact Resistance
Forms	Pellets
Additive	Flame Retardant
Application	Medical/Healthcare Applications

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (265 °C/5.0 kg, Procedure A)	30	g/10 min	ISO 1133
Density - Specific Gravity	1.17	g/cm ³	ASTM D792
Mechanical			
Tensile Elongation at Yield, (51 mm/min, Type I)	5.1	%	ASTM D638
Tensile Strength at Yield, (51 mm/min, Type I)	55.8	MPa	ASTM D638
Flexural Strength at Yield, (Injection Molded, Method I (3 point load), Procedure A)	82.7	MPa	ASTM D790
Tensile Strength at Break	52.1	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, Procedure A, Method I (3 point load))	2280	MPa	ASTM D790
Tensile Elongation at Break	140	%	ASTM D638
Tensile Modulus, (Injection Molded, Type I)	2410	MPa	ASTM D638
Impact			
Notched Izod Impact, (3.18 mm, Method A)	750	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	96.1	°C	ASTM D648
UL Information			
Flame Rating, (1.5 mm)	V-0		UL 94
UL File Number, (USA)	E150937		

Injection Parameters	Nominal Value	Units
Drying Time, (Desiccant Dryer)	4.0 to 6.0	hr
Drying Temperature, (Desiccant Dryer)	93	°C
Suggested Max Moisture	0.02	%
Nozzle Temperature	249 to 263	°C
Front Temperature	249 to 260	°C
Middle Temperature	227 to 235	°C
Rear Temperature	221 to 232	°C
Mold Temperature	66 to 79	°C