

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.

Regulatory Status

For regulatory compliance information, see ABSPC 754M 50567NAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	North America
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

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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