

Ultramid® A3L BK7793

Polyamide 66

BASF Corporation

Message:

Ultramid A3L BK7793 is an impact modified, heat stabilized polyamide 66 for injection molding. This grade has excellent surface appearance and was designed to offer exceptional scratch and mar resistance.

Applications

Ultramid A3L BK7793 can be used in automotive interior applications such as instrument panel bezels and door bezels.

General Information			
Additive	Heat Stabilizer		
	Impact Modifier		
Features	Heat Stabilized		
	Impact Modified		
	Oil Resistant		
	Pleasing Surface Appearance		
	Scratch Resistant		
Uses	Automotive Instrument Panel		
	Automotive Interior Parts		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	55.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	2.8	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	5.2	%	ISO 527-2
Flexural Modulus (23°C)	2360	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-40°C	7.8	kJ/m ²	
23°C	11	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	65.0	°C	ISO 75-2/A

Melting Temperature (DSC)	257	°C	ISO 3146
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	1.0 to 2.0	hr	
Suggested Max Moisture	< 0.080	%	
Processing (Melt) Temp	263	°C	
Mold Temperature	60.0 to 100	°C	
Injection Pressure	34.5 to 124	MPa	
Injection Rate	Fast		
Back Pressure	0.00 to 0.350	MPa	
Screw Speed	40 to 80	rpm	
Screw Compression Ratio	3.0:1.0 to 4.0:1.0		

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