LNP™ COLORCOMP™ COMPOUND AX98567H

PDX-A-98567

DESCRIPTION

LNP* COLORCOMP* AX98567H is an unfilled compound based on ABS. Added feature of this grade is: Healthcare.

TYPICAL PROPERTY VALUES

Revision 20200108

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 5 mm/min	52	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2	%	ISO 527
Tensile Strain, break, 5 mm/min	15	%	ISO 527
Tensile Modulus, 1 mm/min	2500	MPa	ISO 527
Flexural Stress	75	MPa	ISO 178
Flexural Modulus, 2 mm/min	2600	MPa	ISO 178
IMPACT			
Charpy Impact, unnotched, -30°C	70	kJ/m²	ISO 179/2C
Izod Impact, notched 80*10*4 +23°C	12	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C	11	kJ/m²	ISO 179/2C
THERMAL			
CTE, 23°C to 60°C, flow	8.E-05	1/°C	ISO 11359-2
Relative Temp Index, Elec [(1)]	80	°C	UL 746B
Relative Temp Index, Mech w/impact [(1)]	80	°C	UL 746B
Relative Temp Index, Mech w/o impact [(1)]	80	°C	UL 746B
PHYSICAL			
Specific Gravity	1.06	-	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.4 – 0.6	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.4 – 0.6	%	ISO 294
Melt Volume Rate, MVR at 220°C/10.0 kg	16	cm³/10 min	ISO 1133
Melt Volume Rate, MVR at 230°C/10.0 kg	27	cm³/10 min	ISO 1133
ELECTRICAL			
Volume Resistivity	1.E+16	Ohm-cm	IEC 60093
Surface Resistivity, ROA	1.E+16	Ohm	IEC 60093
Hot-Wire Ignition (HWI), PLC 4	≥1.5	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥1.5	mm	UL 746A
High Voltage Arc Track Rate {PLC}	1	PLC Code	UL 746A
Arc Resistance, Tungsten {PLC}	6	PLC Code	ASTM D 495
FLAME CHARACTERISTICS [(1)]			
UL Yellow Card Link	E121562-101343432	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Maximum Moisture Content	0.05 – 0.1	%	
Melt Temperature	260	°C	
Front - Zone 3 Temperature	265 – 275	°C	
Middle - Zone 2 Temperature	230 – 245	°C	
Rear - Zone 1 Temperature	205 – 215	°C	
Mold Temperature	70 – 80	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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