LNP™ COLORCOMP™ COMPOUND AX98561

DESCRIPTION

LNP COLORCOMP AX98561 is a compound based on Acrylonitrile Butadiene Styrene (ABS). Added features of this grade include low gloss and a good balance of physical properties.

GENERAL INFORMATION	
Features	Good Processability, Aesthetics/Visual effects, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Acrylonitrile Butadiene Styrene (ABS)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Interiors
Consumer	Home Decoration, Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Industrial	Electrical, Industrial General

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yld, Type I, 5 mm/min	47	MPa	ASTM D638
Tensile Modulus, 5 mm/min	2620	MPa	ASTM D638
Flexural Strength, 1.3 mm/min, 50 mm span	74	MPa	ASTM D790
Hardness, Rockwell R	112	-	ASTM D785
IMPACT [1]			
Izod Impact, notched, 23°C	220	J/m	ASTM D256
Izod Impact, notched, -40°C	48	J/m	ASTM D256
THERMAL [1]			
HDT, 0.45 MPa, 3.2 mm, unannealed	93	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	86	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, annealed	95.6	°C	ASTM D648
CTE, -40°C to 40°C, flow	8.1E-5	1/°C	ASTM E831
Vicat Softening Temp, Rate A/120	107	°C	ASTM D1525
PHYSICAL [1]			
Specific Gravity	1.06	-	ASTM D792
Melt Flow Rate, 230°C/3.8 kg	5	g/10 min	ASTM D1238
Melt Flow Rate, 220°C/10.0 kgf	13	g/10 min	ASTM D1238
Mold Shrinkage, flow, 3.2 mm [2]	0.4 – 0.6	%	SABIC method
FLAME CHARACTERISTICS [3]			
UL Yellow Card Link	E121562-101343432	-	-
INJECTION MOLDING [4]			
Drying Temperature	80 – 95	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	2 – 4	Hrs	
Drying Time (Cumulative)	8	Hrs	
Maximum Moisture Content	0.1	%	
Melt Temperature	220 – 260	°C	
Nozzle Temperature	220 – 260	°C	
Front - Zone 3 Temperature	215 – 240	°C	
Middle - Zone 2 Temperature	205 – 225	°C	
Rear - Zone 1 Temperature	190 – 210	°C	
Mold Temperature	50 – 70	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	30 – 60	rpm	
Shot to Cylinder Size	50 – 70	%	
Vent Depth	0.038 – 0.051	mm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(3) 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.
(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

DISCLAIMER