

Material Datasheet 1

Trade Name : Zincolac ABS9879RMaterial : Acrylonitrile Butadiene Styrene (ABS)Color : All colors				REACH					
					Mixed Recycle : All colors				
					Properties	Test Method	Test Condition	Unit	Typical Value
Physical									
Specific Gravity	ASTM D792	23°C	g/cm ³	1.02 - 1.05					
Mold Shrinkage	ASTM D995	3.2mm	%	0.3 - 0.6					
Material Impurities	FTIR Spectroscopy		%	Below 2					
Water Absorption	ASTM D570	23°C	%	1					
Rheological									
Melt Flow Index	ASTM D1238	220°C - 5kg	g/10min	18 - 22					
Mechanical									
Tensile Strength	ASTM D638	23°C	MPa	48 - 52					
Tensile Strength	ASTM D638	-40°C	MPa	58 - 62					
Elongation at Yield	ASTM D638	23°C	%	2.4 - 2.8					
Flexural Modulus	ASTM D790B	23°C	MPa	2500 - 2600					
Izod Impact	ASTM D256	V-notched, 1/8"	kg.cm/cm	15 - 18					
Izod Impact (-30°C)	ASTM D256	V-notched, 1/8"	kg.cm/cm	6 - 8					
Thermal									
Heat Distortion Temp.	ASTM D648	Unannealed	°C	86 - 90					
Contact Angle Meas	surement								
Surface Energy (Total)	ASTM D1331	23°C	mN/m	42.8					
Disperse Parts	ASTM D1331	23°C	mN/m	2.0					
Polar Part	ASTM D1331	23°C	mN/m	40					
Recommended Inje	ction Molding Par	ameters							
Barrel Temperature	Value	Mold Temperature	Value						
Zone 1	180 - 200°C	Fixed Half	40 - 60°C						
Zone 2	200 - 220°C	Moving Half	40 - 60°C						
Zone 3	200 - 220°C	Drying Hour	3 - 4						
Zone 4	210 - 230°C	Drying Temperature	80 - 90°C						
Nozzle	190 - 210°C	Melt Temperature	190 - 240°C	, ,					

The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. For further information, please contact or fax to Zinco Colours Technical Services Department.



ABS Source

Our ABS sources are mainly from industrial waste in Japan, which are cleaner, more reliable and consistent.

Some rejected product samples were collected directly from the factory.



Raw Materials

Finished Products

Remote Control

Water Heater Case



Toy Parts



ABS Piping

Air-cond Case



ABS Phone Case



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