

DIALAC® ESA30

Acrylonitrile Ethylene Styrene

UMG ABS, Ltd.

Message:

DIALAC® ESA30 is an Acrylonitrile Ethylene Styrene (AES) material. It is available in Asia Pacific or North America for injection molding.

Important attributes of DIALAC® ESA30 are:

Flame Rated

RoHS Compliant

General Information			
RoHS Compliance	RoHS Compliant		
UL File Number	E47016		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	19.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (23°C)	0.60 to 0.80	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	104		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2300	MPa	ISO 527-2
Tensile Stress (23°C)	45.0	MPa	ISO 527-2
Flexural Modulus ¹ (23°C)	2450	MPa	ISO 178
Flexural Stress ² (23°C)	73.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	4.0	kJ/m ²	
23°C	15	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	81.0	°C	ISO 75-2/Af
CLTE - Flow	7.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	85.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	190 to 210	°C	
Middle Temperature	210 to 230	°C	
Front Temperature	220 to 250	°C	

Nozzle Temperature	200 to 230	°C
Processing (Melt) Temp	220 to 260	°C
Mold Temperature	50.0 to 60.0	°C
Injection Pressure	70.0 to 140	MPa
Injection Rate	Moderate	
Back Pressure	5.00 to 15.0	MPa
Screw Speed	50 to 100	rpm

NOTE

1. 2.0 mm/min
2. 2.0 mm/min

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

