

ARKABS6140D

Acrylonitrile Butadiene Styrene

Product Description			
High Heat, High Impact ABS Compound.			
Basic Information			
Characteristic	Good Liquidity		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	ABS		
Physical Properties	Rated Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183/A
Melt Volume Rate(MVR) (220°C/10.0	7.00	cm ³ /10min	ISO 1133
Hardness	Rated Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	109	MPa	ISO 2039-1
Mechanical	Rated Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/1A/1
Tensile Stress			ISO 527-2/1A/50
Yield Point	46.0	MPa	ISO 527-2/1A/50
Fracture	37.0	MPa	ISO 527-2/1A/50
Tensile Stress At Yield	3.4	%	ISO 527-2/1A/50
Nominal Tensile Strain At Break	16	%	ISO 527-2/1A/50
Flexural Modulus ¹	2800	MPa	ISO 178
Flexural Stress ² (4.4% Strain)	77.0	MPa	ISO 178
Impact Properties	Rated Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	12.0	kJ/m ²	ISO 179/1eA
23°C	22.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	Unfracture		ISO 179/1eU
23°C	Unfracture		ISO 179/1eU
Thermal	Rated Value	Unit	Test Method
Heat Distortion Temp			
0.45 MPa, Unannealed	94.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	86.0	°C	ISO 75-2/Af
Vicat Softening Temp			
--	118	°C	ISO 306/A50
--	107	°C	ISO 306/B50
Electrical Properties	Rated Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms-cm	IEC 60093
Comparative Tracking Index	600	V	IEC 60112
Flammability	Rated Value	Unit	Test Method
Flammability Rating			IEC 60695-11-10,-20
1.6 mm	HB		IEC 60695-11-10,-20
3.2 mm	HB		IEC 60695-11-10,-20

Hot Filament Ignition Temp			IEC 60695-2-13
1.5 mm	700	°C	IEC 60695-2-13
3.0 mm	700	°C	IEC 60695-2-13
Supplementary Information			
1.)Not for use in food contact applications			
2.)Not for use in medical or pharmaceutical applications			
Injection	Rated Value	Unit	
Drying Temp	80	°C	
Drying Time	2.0 to 4.0	hr	
Recommended Maximum Recycled	30	%	
Processing Temp	230 to 250	°C	
Mold Temp	40 to 80	°C	