

PENTALLOY BS 6 H UV schwarz

Acrylonitrile Butadiene Styrene + Nylon

PENTAC Polymer GmbH

Message:

PA-ABS alloy, unreinforced, heat stabilised

General Information				
Additive		heat stabilizer		
Features		Thermal Stability		
		Excellent appearance		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Black		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	1.7	--	%	ISO 294-4
Flow direction	1.5	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	3.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.4	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	70.0	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1850	--	MPa	ISO 527-2/1
Tensile Stress				ISO 527-2
Yield	50.0	--	MPa	ISO 527-2
Fracture	45.0	--	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	3.5	--	%	ISO 527-2
Fracture	70	--	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				
-30°C	18	--	kJ/m²	ISO 179/1eA
23°C	--	75	kJ/m²	ISO 179/1e
23°C	65	--	kJ/m²	ISO 179/1eA

Charpy Unnotched Impact Strength			ISO 179/1eU	
-30°C	No Break	--	ISO 179/1eU	
23°C	No Break	No Break	ISO 179/1eU	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	110	--	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	222	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength (1.00 mm)	27	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.10	--		IEC 60250
Comparative Tracking Index	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		UL 94
3.20 mm	HB	--		UL 94
Additional Information				
干燥				
The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.Tensile Strain at Break, ISO 527: >70%				
Injection	Dry	Unit		
Drying Temperature	70.0		°C	
Drying Time	3.0		hr	
Suggested Max Moisture	0.14		%	
Suggested Max Regrind	20		%	
Rear Temperature	245 - 270		°C	
Middle Temperature	260 - 275		°C	
Front Temperature	260 - 270		°C	
Processing (Melt) Temp	265		°C	
Mold Temperature	80.0		°C	
Injection Pressure	50.0		MPa	
Holding Pressure	30.0		MPa	
Screw L/D Ratio	20.0:1.0			
Screw Compression Ratio	2.2:1.0 to 2.8:1.0			

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