

PENTALLOY BS 6 H RC UV black

Acrylonitrile Butadiene Styrene + PA

PENTAC Polymer GmbH

Message:

PA-ABS alloy recompound, unreinforced, heat stabilised

General Information				
Additive	heat stabilizer			
	UV stabilizer			
Recycled Content	Yes			
Features	Good UV resistance			
	Thermal Stability			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Black			
Forms	Particle			
Processing Method	Injection molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	1.7	--	%	ISO 294-4
Flow	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
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1850	--	MPa	ISO 527-2/1
Tensile Stress				ISO 527-2/50
Yield	50.0	--	MPa	ISO 527-2/50
Fracture	45.0	--	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	3.5	--	%	ISO 527-2/50
Fracture	> 70	--	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	18	--	kJ/m ²	ISO 179/1eA
23°C	65	75	kJ/m ²	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	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength	27	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.10	--		IEC 60250
Comparative Tracking Index	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.6 mm	HB	--		UL 94
3.2 mm	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	70		°C	
Drying Time	3.0		hr	
Suggested Max Moisture	0.070 - 0.15		%	
Suggested Max Regrind	20		%	
Rear Temperature	250 - 270		°C	
Middle Temperature	255 - 280		°C	
Front Temperature	260 - 270		°C	
Processing (Melt) Temp	245 - 285		°C	
Mold Temperature	60 - 100		°C	
Injection Pressure	50.0		MPa	
Screw L/D Ratio	18.0:1.0 to 22.0:1.0			
Screw Compression Ratio	2.2:1.0 to 2.8:1.0			

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