

PENTALLOY BTA H UV black 9040

Polybutylene Terephthalate + ASA

PENTAC Polymer GmbH

Message:

PBT-ASA alloy, unreinforced, heat stabilised, special coloration, high UV resistance

General Information			
Additive	heat stabilizer		
	UV stabilizer		
Features	Good UV resistance		
	Thermal Stability		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	0.60	%	ISO 294-4
Flow	0.50	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	65.0	MPa	ISO 527-2/50
Fracture	60.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	5.0	%	ISO 527-2/50
Fracture	> 10	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	75	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	160	°C	ISO 75-2/B
1.8 MPa, not annealed	85.0	°C	ISO 75-2/A

Melting Temperature	222	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.2 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.010 - 0.090	%	
Suggested Max Regrind	20	%	
Rear Temperature	250 - 275	°C	
Middle Temperature	255 - 280	°C	
Front Temperature	260 - 270	°C	
Processing (Melt) Temp	245 - 285	°C	
Mold Temperature	60 - 100	°C	
Injection Pressure	45.0	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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