

PENTALLOY BP (HV) H natural

Polyamide 6 + PP
PENTAC Polymer GmbH

Message:
High viscosity PA6+PP-alloy (extrusion grade), non-reinforced, heat stabilised, resistant to corrosion

General Information				
Additive	heat stabilizer			
Features	Good corrosion resistance			
	Thermal Stability			
	Viscosity, High			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Natural color			
Forms	Particle			
Processing Method	Extrusion			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.04	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	1.9	--	%	ISO 294-4
Flow	1.4	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	4.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.3	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2700	1800	MPa	ISO 527-2/1
Tensile Stress (Yield)	61.0	46.0	MPa	ISO 527-2/50
Tensile Strain				
Yield	4.4	9.0	%	ISO 527-2/50
Fracture	26	> 40	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	--	kJ/m ²	ISO 179/1eA
23°C	13	25	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	140	--	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	--	°C	ISO 75-2/A
Melting Temperature	222	--	°C	ISO 11357-3
Flammability	Dry	Conditioned		Test Method
Flame Rating				UL 94
1.6 mm	HB	--		UL 94
3.2 mm	HB	--		UL 94
Extrusion	Dry	Unit		
Drying Temperature	80			°C
Drying Time	4.0			hr
Suggested Max Moisture	0.050 - 0.13			%
Cylinder Zone 1 Temp.	245 - 260			°C
Cylinder Zone 2 Temp.	250 - 265			°C
Cylinder Zone 3 Temp.	255 - 270			°C
Cylinder Zone 4 Temp.	260 - 270			°C
Cylinder Zone 5 Temp.	265			°C
Melt Temperature	240 - 280			°C

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