PENTAMID AB L5 H1 RC black

PA66/6 — Pentac Polymer GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**1.4 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.4 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**2700 / 1200**	MPa	ISO 527
Yield stress	**65 / 40**	MPa	ISO 527
Yield strain	**4.5 / 17**	%	ISO 527
Flexural modulus, 23°C	**2550 / -**	MPa	ISO 178
Flexural strength	**95 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**16 / 22**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**255 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**60 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**180 / ***	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**1.6 / ***	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**3.2 / -**	-	IEC 62631-2-1
Electric strength	**32 / -**	kV/mm	IEC 60243-1
Comparative tracking index	**525 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	**8.1 / ***	%	Sim. to ISO 62
Humidity absorption	**2.5 / ***	%	Sim. to ISO 62
Density	**1110 / -**	kg/m³	ISO 1183

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	**130 / ***	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**3**	h	-
Processing humidity	**≤0.13**	%	-
Mold temperature	**60 - 100**	°C	-
Feed temperature	**80**	°C	-
Zone 1	**265**	°C	-
Zone 2	**275**	°C	-
Zone 3	**280**	°C	-
Zone 4	**285**	°C	-
Zone 5	**280**	°C	-

Characteristics

Processing

Injection Molding

Chemical Resistance

Oil Resistance

Delivery form
Pellets, Black

Certifications
Recycled Resin Content, RoHS compliant

Special Characteristics
High impact or impact modified, Heat stabilized or stable to heat

Regional Availability
Europe