

PROVISIONAL TECHNICAL DATA SHEET

MEXMID 6 HI NC



Polyamide 6 unfilled, high impact

PROPERTIES	Method	Unit	Typical Values
PHYSICAL			
Melt Density	internal	g/ml (g/cm ³)	1,00
Moulding shrinkage, parallel	ISO 294-4	%	1,4÷1,8
Humidity absorption, 2mm	ISO 62	%	2,0
Rockwell Hardness	ASTM D785	-	110R
Resin Identification	ISO1043	-	PA6-HI
Part Marking Code	ISO11469	-	>PA6-HI<
ISO Designation		ISO 16396-PA6-I	
MECHANICAL			
Yield stress	ISO 527	MPa	42
Yield stain	ISO 527	%	10
Tensile Modulus	ISO 527	MPa	1000
Flexural Strength	ISO 179	MPa	49
IZOD Impact strength, notched (23°C)	ISO 180	KJ/m ²	65
IZOD Impact strength, notched (-30°C)	ISO 180	KJ/m ²	15
THERMAL			
HDT 1,82 Mpa (Method A)	ISO 75	°C	62
Melting temperature, 10°C/min	ISO 11357-1/-3	°C	223
Glass transition temperature, 10°C/min	ISO 11357-1/-2	°C	75
FLAME RESISTANCE			
Oxygen Index (LOI)	ASTM D2863	%	-
Flame resistance (3,2 mm)	UL94	Class	HB
Glow Wire Flammability Index, 0.75mm	IEC 60695-2-12	°C	725
PROCESSING CONDITIONS			
Cylinder temperature	-	°C	235 ÷ 285
Die	-	°C	60÷120
Back pressure	-	bar	750 - 1250
Injection speed	-	-	medium-high
Ejection temperature	-	°C	190
Drying process	-	hours - °C	4h/90°C