

EPLAMID 6 NC L K B4.0

Polyamide 6

Unfilled polyamide 6, externally and internally lubricated for injection moulding.

Properties	Test Method	Unit	Value	Column1
Physical properties			Dry	Cond
Density (23°C)	ISO 1183	g/cm ³	1,14	
Melt volume - flow rate (275°C/5kg)	ISO 1133	cm ³ /10min	160	
Determination of water content	ISO 15512	%	0,1	
Mold shrinkage- parallel/normal (3mm)	ISO 294-4	%	1,0/1,2	
Mechanical properties				
Tensile modulus (1mm/min) (23°C)	ISO 527-2	MPa	3100	1000
Tensile stress at break (50mm/min) (23°C)	ISO 527-2	MPa	75	40
Tensile strain at break (50mm/min) (23°C)	ISO 527-2	%	40	>50
Flexural modulus (2mm/min) (23°C)	ISO 178	MPa	2800	850
Flexural strength (2mm/min) (23°C)	ISO 178	MPa	105	35
Notched izod impact (23°C)	ISO 180/1A	kJ/m ²	<10	<10
Unnotched izod impact (23°C)	ISO 180/1U	kJ/m ²	No break	No break
Notched charpy impact (23°C)	ISO 179/1eA	kJ/m ²	<10	20
Unnotched charpy impact (23°C)	ISO 179/1eU	kJ/m ²	No break	No break
Thermal properties				
Melting point	ISO 3146	°C	222	
Temp. of deflection under load (0,45 MPa)	ISO 75-2/B	°C	160	
Temp. of deflection under load (1,80 MPa)	ISO 75-2/A	°C	55	
Flammability & electrical properties				
Flammability classification (0,4mm) - UL 94	EN 60695-11-10	-	V2	
Glow Wire - GWFI (1,6 mm)	EN 60695-2-12	°C	850	
Glow Wire - GWIT (1,6 mm)	EN 60695-2-13	°C	700	
Comparative tracking index - CTI (Solution A)	EN 60112	V	600	
Surface resistivity	ASTM D257	Ω/sq	1,00E+13	
Test conditions				
Laboratory conditions are 23 ±2°C and 45-55 % RH.				

Notes: Eplamid 6 offers all primary properties of unreinforced PA6 used in all sectors of industry, super balance of thermal and mechanical properties, especially for thin wall and fast cycle applications.

This material is available in natural and colors on request.

Producer:EPSAN.Turkey.