

**Product Texts**

HiDura D1XI2J BK0842 is a low viscosity, medium impact modified, and heat stabilized PA612 grade. It is suitable for profile and pipe extrusions. It exhibits low moisture absorption, good chemical resistance, dimensional stability, and high impact resistance. PA612 offers a unique balance of thermal, mechanical, and physical properties.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	2.9 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.2 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	1000 / 600	MPa	ISO 527
<sup>[C]</sup> Yield stress	29 / *	MPa	ISO 527
<sup>[C]</sup> Yield strain	32 / *	%	ISO 527
<sup>[C]</sup> Stress at 50% strain	* / 32	MPa	ISO 527
<sup>[C]</sup> Strain at break	* / >50	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	102 / 111	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	99 / 107	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	218 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	47 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	115 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	235 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	142 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Electric strength	31 / 30	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	0.3 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	0.9 / *	%	Sim. to ISO 62
<sup>[C]</sup> Density	1000 / -	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics****Processing**

Pipe/Tube Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion

**Delivery form**

Pellets, Black

**Special Characteristics**

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

**Chemical Resistance**

General Chemical Resistance

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa