HiDura™ D3XI3J BK0808

PA612 Ascend

Product Texts

HiDura D3XI3J BK0808 is a high viscosity, low 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. This grade offers high burst pressures for extruded tubing systems. PA612 offers a unique balance of thermal, mechanical, and physical properties.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**1.7 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.7 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2000 / 1300**	MPa	ISO 527
[C] Yield stress	**54 / 43**	MPa	ISO 527
[C] Yield strain	**4.7 / 14**	%	ISO 527
[C] Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**18 / 56**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**13 / 15**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**218 / ***	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**57 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**145 / ***	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**95 / ***	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**110 / ***	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Electric strength	**32 / 30**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**0.4 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**1.2 / ***	%	Sim. to ISO 62
[C] Density	**1050 / -**	kg/m³	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