HiDura™ D3X NT

PA612 Ascend

Product Texts

HiDura D3X NT is a high viscosity PA612 grade. It is suitable for monofilament, film and profile extrusion applications; it can also be used for molded applications where high abrasion resistance and ductility are key requirements. It exhibits low moisture absorption, good chemical resistance, dimensional stability, and high impact resilience. 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	**1.9 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2100 / 1400**	MPa	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	**3.9 / 7.8**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**3 / 5.8**	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	**53 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**129 / ***	°C	ISO 75-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Electric strength	**31 / 31**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Humidity absorption	**1.3 / ***	%	Sim. to ISO 62
[C] Density	**1060 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion, Casting

Delivery form
Pellets, Natural Color

Features
Ductile

Chemical Resistance
General Chemical Resistance

Applications
Monofilament

Regional Availability
North America, Europe, Asia Pacific