

Product Texts

HiDura PTR 833F is a polyamide copolymer that features high strength, flexibility, toughness, and slow crystallization. It offers melt viscosity and crystallization rate suitable for cast film, mono- and biaxially oriented film, and some blown film applications.

Processing/Physical Characteristics

	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.4 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.4 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties

	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2300 / 627	MPa	ISO 527
^[C] Charpy impact strength, +23°C	N / 164	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / 179	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	3.8 / 42	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	3.3 / 2.6	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties

	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	227 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	47 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	69 / *	°C	ISO 75-1/-2

[C]: CAMPUS

Electrical properties

	dry / cond	Unit	Test Standard
ISO Data			
^[C] Electric strength	28 / 28	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties

	dry / cond	Unit	Test Standard
^[C] Water absorption	3.2 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2.7 / *	%	Sim. to ISO 62
^[C] Density	1120 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Material specific properties

	dry / cond	Unit	Test Standard
ISO Data			
^[C] Viscosity number	248 / *	cm ³ /g	ISO 307, 1157, 1628

[C]: CAMPUS

Characteristics**Processing**

Blown Film Extrusion, Film Extrusion

Features

Copolymer

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Additives

Lubricants