DuraStar™ MN630

PCTA — Eastman Chemical Co.

Product Texts

DuraStar™ Copolyester MN630 does not contain a mold release. It has excellent appearance and is nearly waterclear.

Its most outstanding feature is its high flow characteristic, with the ability to fill intricate tooling. It is easy to process with minimal drying time and has good toughness and chemical resistance.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.003**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	**50**	MPa	ASTM D 638
Tensile Strength at Break	**43**	MPa	ASTM D 638
Elongation at Yield	**5**	%	ASTM D 638
Elongation at Break	**270**	%	ASTM D 638
Flexural Modulus	**1900**	MPa	ASTM D 790
Rockwell Hardness	**R 107**	-	ASTM D 785
Izod Impact notched, 1/8 in	**80**	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	**44**	J/m	ASTM D 256
Temperature	**-40**	°C	-
Izod Impact unnotched, 1/8 in	**N**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	**73**	°C	ASTM D 648
DTUL @ 264 psi	**66**	°C	ASTM D 648
Vicat Temperature	**86**	°C	ASTM D 1525

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	**1**	%	ASTM D 1003
Light Transmittance	**92**	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	**0.15**	%	ASTM D 570
Density	**1190**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**70**	°C	-
Pre-drying - Time	**4**	h	-
Melt temperature	**230 - 280**	°C	-
Mold temperature	**15 - 30**	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

Transparent

Chemical Resistance

General Chemical Resistance, Solvent Resistance, Radiation Resistance

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Features
Color Stability

Applications
Medical

Regional Availability
North America, Europe, Near East/Africa

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