

XT® 375

PMMA

Evonik CYRO LLC

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	2.6	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	2600	MPa	ASTM D 638
Tensile Strength	48.3	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	28	%	ASTM D 638
Flexural Modulus	2400	MPa	ASTM D 790
Flexural Strength	75.8	MPa	ASTM D 790
Rockwell Hardness	M 45	-	ASTM D 785
Izod Impact notched, 1/4 in	107	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	85	J/m	ASTM D 256
Temperature	0	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Coefficient of Thermal Expansion, MD	90	E-6/K	ASTM D 696
Vicat Temperature	103	°C	ASTM D 1525

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	2.5	%	ASTM D 1003
Light Transmittance	86	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Water Absorption, Equilibrium	0.3	%	ASTM D 570
Density	1110	kg/m ³	ASTM D 792
Bulk Density	650	kg/m ³	-

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	82	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	204 - 246	°C	-
Mold temperature	32 - 79	°C	-
Injection pressure	69 - 138	MPa	-
Back pressure	0 - 0.69	MPa	-

Characteristics**Processing**

Injection Molding, Other Extrusion, Blow Molding, Thermoforming

Delivery form

Natural Color

Special Characteristics

High impact or impact modified

Chemical Resistance

General Chemical Resistance, Radiation Resistance

Certifications

Food contact, Food approval FDA 21 CFR, Medical Grade, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved

Applications

Medical, Packaging, Sports Equipment

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Features

Light Guiding, Weldable

Regional Availability

North America