

**RITEFLEX® 672A - TPC**

Experimental Grade. Please contact your Celanese representative for further information.

**Description**

Riteflex 672A is a 72 Shore D Hardness thermoplastic polyester elastomer with a high modulus.

Physical properties	Value	Unit	Test Standard
Molding shrinkage, parallel	1.7 - 2.2	%	ISO 294-4, 2577
Molding shrinkage, normal	1.7 - 2.2	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
Tensile nominal strain at break, 50mm/min	>50	%	ISO 527-2/1A
Tensile stress at break, 50mm/min	22	MPa	ISO 527-2/1A
Charpy notched impact strength, 23°C	19	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	5	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	215	°C	ISO 11357-1/-3
DTUL at 0.45 MPa	95	°C	ISO 75-1, -2
Vicat softening temperature, 50 °C/h 10N	205	°C	ISO 306

**Typical injection moulding processing conditions**

Pre Drying	Value	Unit	Test Standard
Necessary low maximum residual moisture content	0.05	%	-
Drying time	4	h	-
Drying temperature	100 - 110	°C	-
Temperature	Value	Unit	Test Standard
Hopper temperature	20 - 50	°C	-
Feeding zone temperature	200 - 215	°C	-
Zone1 temperature	215 - 230	°C	-
Zone2 temperature	215 - 230	°C	-
Zone3 temperature	215 - 230	°C	-
Zone4 temperature	215 - 230	°C	-
Nozzle temperature	215 - 230	°C	-
Melt temperature	220 - 235	°C	-
Mold temperature	20 - 55	°C	-
Hot runner temperature	220 - 235	°C	-
Speed	Value	Unit	Test Standard
Injection speed	medium-fast	-	-

**Other text information****Pre-drying**

To avoid hydrolytic degradation during processing, Riteflex resins have to be dried to a moisture level equal to or less than 0.05%. Drying should be done in a dehumidifying hopper dryer capable of dewpoints <-40°F (-40°C) at 230°F (110°C) for 4 hours.

**Longer pre-drying times/storage**

For subsequent storage of the material in the dryer until processed (<= 60 h) it is necessary to lower the temperature to 100° C.

**Injection molding**

Rear Temperature 390-420(200-215) deg F (deg C)  
 Center Temperature 420-450(215-230) deg F (deg C)  
 Front Temperature 420-450(215-230) deg F (deg C)  
 Nozzle Temperature 420-450(215-230) deg F (deg C)  
 Melt Temperature 430-460(220-235) deg F (deg C)  
 Mold Temperature 75-125(20-55) deg F (deg C)

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Back Pressure 0-50 psi  
Screw Speed Medium  
Injection Speed Fast

Injection speed, injection pressure and holding pressure have to be optimized to the individual article geometry. To avoid material degradation during processing low back pressure and minimum screw speed have to be used. Overheating of the material has to be avoided, in particular for flame retardant grades. Up to 25% clean and dry regrind may be used.

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### Characteristics

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#### Product Categories

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Unfilled

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#### Processing

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Injection molding