

InStruc® PPTALC40

Americhem - Polypropylene

General Information

Product Description

40% Talc-Reinforced Polypropylene

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Talc, 30% Filler by Weight		
Features	• Good Dimensional Stability		
Uses	• Battery Cases • Closures • Connectors	• Consumer Applications • Electrical/Electronic Applications • Housings	• HVAC Applications • Industrial Applications • Industrial Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.125 in)	8.0E-3 to 0.011	in/in	ASTM D955
Water Absorption (Equilibrium)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	3400	psi	ASTM D638
Tensile Elongation (Yield)	3.0	%	ASTM D638
Flexural Modulus	375000	psi	ASTM D790
Flexural Strength	4100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	0.90	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	160	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	160	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	440	°F
Mold Temperature	100	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

