

TRIEL® 5700

Samyang Corporation - Thermoplastic Polyester Elastomer

General Information

Product Description

TRIEL® offers significant chemical resistance, thermal resistance, weatherability and low temperature flexibility.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Forms	• Pellets

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.25		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.017 to 0.020	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
5.0% Strain	3410	psi	
10% Strain	4050	psi	
50% Strain	3670	psi	
Tensile Strength (Break)	5690	psi	ASTM D638
Tensile Elongation (Break)	> 400	%	ASTM D638
Flexural Modulus	88200	psi	ASTM D790
Flexural Strength (Yield)	3560	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact			ASTM D4812
-40°F	1.3 to 1.7	ft·lb/in	
73°F	1.8 to 2.2	ft·lb/in	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	244	°F	ASTM D648
Vicat Softening Temperature	399	°F	ASTM D1525 ²
Melting Temperature	419	°F	ASTM D2117

Notes

¹ Typical properties: these are not to be construed as specifications.

² Rate B (120°C/h), Loading 1 (10 N)
