

TRIEL® PZ5451SP

 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
Uses	• General Purpose	• Industrial Applications	
Forms	• Pellets		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.13		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.015 to 0.017	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	427	psi	
10% Strain	569	psi	
50% Strain	1140	psi	
Tensile Strength (Break)	2420	psi	ASTM D638
Tensile Elongation (Break)	> 400	%	ASTM D638
Flexural Modulus	12800	psi	ASTM D790
Flexural Strength (Yield)	711	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	No Break		ASTM D256
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	40		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	140	°F	ASTM D648

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