

TRIEL® 5301SP

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	• Automotive Applications • Automotive Exterior Parts
Forms	• Pellets

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.10		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	24 to 28	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	498	psi	
10% Strain	711	psi	
50% Strain	1140	psi	
Tensile Strength (Break)	1850	psi	ASTM D638
Tensile Elongation (Break)	> 400	%	ASTM D638
Flexural Modulus	3980	psi	ASTM D790
Flexural Strength (Yield)	327	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact			ASTM D4812
-40°F	No Break		
73°F	No Break		
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	30		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	122	°F	ASTM D648
Vicat Softening Temperature	226	°F	ASTM D1525 ²
Melting Temperature	360	°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)
