TRIEL® 5451BM

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 Interior Parts	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.16		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.118 in)	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 (Yield)	1850	psi	ASTM D638
Tensile Elongation (Break)	> 400	%	ASTM D638
Flexural Modulus	13100	psi	ASTM D790
Flexural Strength (Yield)	853	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	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)	167	°F	ASTM D648
Vicat Softening Temperature	320	°F	ASTM D1525

Notes

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