

Tuftec™ H1043

Styrene Ethylene Butylene Styrene Block Copolymer
AKelastomers

Message:

Specially designed for modification and compatibilization of PS/PP alloys. Enables effective dispersion of PP in PS. It is supplied in pellet form. PS(GPPS, HIPS)/PP alloy compatibilizer; preserves PS processability while increasing resistance to heat and oil, and thus used for food containers and trays, and in place of ABS. Effective as additive to PS for recycling. Also effective as modifier for enhancement of SAN, ABS, PPE, and other resins.

General Information			
Features	Heat resistance, high		
	Oil resistance		
Uses	Composite		
	Food container		
	Bracket tray		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.990	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	5.0	g/10 min	ASTM D1238
230°C/2.16 kg	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		JIS K6253
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	28.4	MPa	ASTM D638
Tensile Elongation			
Fracture ²	170	%	ASTM D638
Fracture	20	%	JIS K6251
Flexural Modulus ³	1770	MPa	ASTM D790
Flexural Strength ⁴	46.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	71	J/m	ASTM D256
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength (120°C, 168 hr)	-1.0	%	ISO 188
Change in Tensile Strain at Break (120°C, 168 hr)	-4.0	%	ISO 188
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	89.0	°C	ASTM D648
Vicat Softening Temperature	108	°C	ASTM D1525

Additional Information

Properties listed are for 70/30/6 HIPS/PP/H1043 blend.

NOTE

1.	5.0 mm/min
2.	5.0 mm/min
3.	3.0 mm/min
4.	3.0 mm/min

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