

ELASTANE® 4721R30 BK-1

 DOMO Engineering Plastics - *Thermoplastic Polyurethane Elastomer*
General Information
Product Description

Thermoplastic Polyurethane Elastomer, 30% glass fiber reinforced, for injection moulding, black. For America availability only.

General

Material Status	• Commercial: Active
Availability	• Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• TPU-GF30

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.48	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
Flow	0.0 to 0.10	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	638000	551000	psi	ISO 527-1
Tensile Stress (Break)	13100	9430	psi	ISO 527-2
Tensile Strain (Break)	12	9.0	%	ISO 527-2
Flexural Modulus	595000	508000	psi	ISO 178
Flexural Stress	16700	13100	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	4.8	4.8	ft·lb/in ²	
73°F	14	15	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	26	24	ft·lb/in ²	
73°F	57	45	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	338	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	257	--	°F	ISO 75-2/A

Processing Information

Injection	Dry Unit
Rear Temperature	437 to 455 °F
Middle Temperature	446 to 464 °F
Front Temperature	464 to 500 °F
Mold Temperature	167 to 185 °F

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