

FLEXITEQ™ F50D010UV

Thermoplastic Vulcanizate

Marplex Australia Pty. Ltd.

Message:

FLEXITEQ™ F50D010UV is a formulation based on Santoprene™ rubber technology. It features an optimal balance of processability, formability and material properties with enhanced heat and UV stability, and can be formulated in a pre-coloured material. FLEXITEQ™ F50D010UV can be processed on conventional thermoplastic equipment for injection moulding. It is polyolefin based and is completely recyclable.

General Information			
Additive	UV stabilizer		
Features	Good UV resistance		
	Recyclable materials		
	Workability, good		
	Heat resistance, medium		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	62		ASTM D2240
Shaw D, 15 seconds	51		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus ¹ (3.20 mm)	405	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D412
Yield	16.2	MPa	ASTM D412
Fracture	17.3	MPa	ASTM D412
Tensile Elongation ³ (Break)	650	%	ASTM D412
Tear Strength ⁴	110	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	450	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	136	°C	ASTM D1525 ⁵
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	185 - 205	°C	
Middle Temperature	195 - 220	°C	
Front Temperature	200 - 230	°C	
Nozzle Temperature	200 - 230	°C	

Processing (Melt) Temp	200 - 230	°C
Mold Temperature	10.0 - 50.0	°C
Injection Rate	Fast	
Back Pressure	0.300 - 0.700	MPa
Screw Speed	100 - 200	rpm
Clamp Tonnage	3.0 - 5.0	kN/cm ²

Injection instructions

Injection Pressure: High

NOTE

1. 1.3 mm/min
2. C mold, 500 mm/min
3. Mouth die C, 500 mm/min
4. C mold, 500 mm/min
5. 标准 B (120°C/h), 压力1 (10N)

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