

Devlon A153/S

Thermoplastic
Devol® Engineering Polymers

Message:
Devlon A153/S is a Thermoplastic material. It is available in Europe.

General Information			
Features	Self Extinguishing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.10 to 1.5	%	
Saturation	4.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112 to 120		ASTM D785
Durometer Hardness (Shore D)	78 to 85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2750 to 4060	MPa	ASTM D638
Tensile Strength			ASTM D638
-40°C	110	MPa	
23°C	81.2 to 82.7	MPa	
Tensile Elongation (Yield, 23°C)	3.8 to 10	%	ASTM D638
Flexural Strength	82.4 to 125	MPa	ASTM D790
Compressive Strength	139 to 145	MPa	ASTM D695
Compressive Strength	139 to 145	MPa	ASTM D695
Flammability	self extinguishing		UL 94
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-40°C)	20.3	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	190 to 209	°C	
1.8 MPa, Unannealed	98.0 to 100	°C	
Peak Melting Temperature	214 to 260	°C	ASTM D3418
CLTE - Flow (30 to 100°C)	7.0E-5 to 1.4E-4	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	12 to 15	kV/mm	ASTM D149

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