

Devlon S Grade

Thermoplastic

Devol® Engineering Polymers

Message:

Devlon S Grade is a Thermoplastic material. It is available in Europe. Primary attribute of Devlon S Grade: Flame Rated.

General Information			
Appearance	Blue		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.10	%	
Saturation	3.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ASTM D785
Durometer Hardness (Shore D)	78 to 80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4060	MPa	ASTM D638
Tensile Strength			ASTM D638
-40°C	110	MPa	
23°C	81.2	MPa	
Tensile Elongation (Break, 23°C)	3.8	%	ASTM D638
Flexural Strength	125	MPa	ASTM D790
Compressive Strength	140	MPa	ASTM D695
Deformation Under Load ¹ (23°C, 14 MPa)	1.00 to 2.00	%	ASTM D621
Compressive Yield Strength	91.2	MPa	ASTM D695
Service Temperature			ASTM D570
-- ²	105	°C	
Short Term	180	°C	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ASTM D256
-40°C	20.3	J/m	
23°C	57.5	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	209	°C	
1.8 MPa, Unannealed	98.0	°C	
Melting Temperature	214	°C	ASTM D3418
CLTE - Flow (30 to 100°C)	1.4E-4	cm/cm/°C	ASTM E831

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	> 15	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		UL 94
NOTE			
1.	24 hrs		
2.	Long Term		

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