

Devlon V-API

Thermoplastic

Devol® Engineering Polymers

Message:

Devlon V-API is a Thermoplastic material. It is available in Europe. Primary attribute of Devlon V-API: Flame Rated.

General Information			
Appearance	Yellow		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.11	%	
Saturation	3.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Durometer Hardness (Shore D)	78 to 80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4140	MPa	ASTM D638
Tensile Strength			ASTM D638
-40°C	110	MPa	
23°C	79.9	MPa	
Tensile Elongation (Break, 23°C)	5.4	%	ASTM D638
Flexural Strength	122	MPa	ASTM D790
Compressive Strength	140	MPa	ASTM D695
Deformation Under Load (23°C, 14 MPa)	1.00 to 2.00	%	ASTM D621
Compressive Yield Strength	91.2	MPa	ASTM D695
Service Temperature			ASTM D570
-- ¹	125	°C	
Short Term	190	°C	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ASTM D256
-40°C	19.8	J/m	
23°C	54.8	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	209	°C	
1.8 MPa, Unannealed	93.0	°C	
Melting Temperature	216	°C	ASTM D3418
CLTE - Flow (30 to 100°C)	1.1E-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.	Long Term		

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