TPV – 160A Datasheet

Description:

TPV – 160A is a thermoplastic Elastomer (TPE), that is based on PP/EPDM. It is designed to replace thermoset elastomers, such as EPDM or polychloroprene, and traditional thermoplastic TPVs/TPEs. TPV – 160A provides the performance of vulcanizated rubber with the advantage of low-cost thermoplastic processing. Excellent oil and chemical resistance with a maximum service temperature of 275°F. It is ozone, UV and water resistant as well. This grade is also considered polyolefin.

Applications:

Suitable for applications requiring flexibility in the following markets: automotive, appliance, business machines, construction, consumer products, electrical & electronics, fluid delivery, hardware, wire and cable, and medical devices.

PROPERTY	Typical Value	Units	Test Method
PHYSICAL			
Hardness			
Injection Molded, 5 sec	60	Shore A	ASTM D2240
Extrusion, 5 sec	56		
Specific Gravity			
23°C	.97		ASTM D792
Compression Set [125C, 70H]			
22 hr @ 70°C	28	%	ASTM D395
Ozone Resistance			
500 hr, 100 pphm O_3 conc.	Good		ASTM D1149
MECHANICAL			
Tensile Strength			
23°C, 500 mm/min	7	Mpa	ASTM D412
Tensile Modulus @ 100%			
23°C, 500 mm/min	2.4	Mpa	ASTM D412
Ultimate Elongation			
23°C, 500 mm/min	500	%	ASTM D412
Tear Strength			
23°C, 500 mm/min	32	kN/m	ASTM D624 (Die C)
Flammability	Pass		UL94-HB

Maximum recommended operating temperature: 275°F

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